



**SURAH AL-MULK**

**A DEEPER LOOK**

**MUSLIM EXPLORERS**

**SUMMER CAMP, 2017**



بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

تَبْرَكَ الَّذِي فِي يَدَيْهِ الْمُلْكُ وَهُوَ عَلَى كُلِّ شَيْءٍ قَدِيرٌ

BLESSED IS HE IN WHOSE HAND IS DOMINION, AND HE IS OVER  
ALL THINGS COMPETENT --- ayah:1

GOODNESS, BLESSINGS

An excess in goodness or blessings that is continuously being multiplied beyond expectation.

الْمَلِكُ

DOMINION, KINGSHIP,  
SUPREME OWNERSHIP & AUTHORITY

The Absolute Ruler

قَدِيرٌ



COMPETENT, EXPERT

The All able, All powerful (القادر)

HE ALONE OWNS EVERYTHING

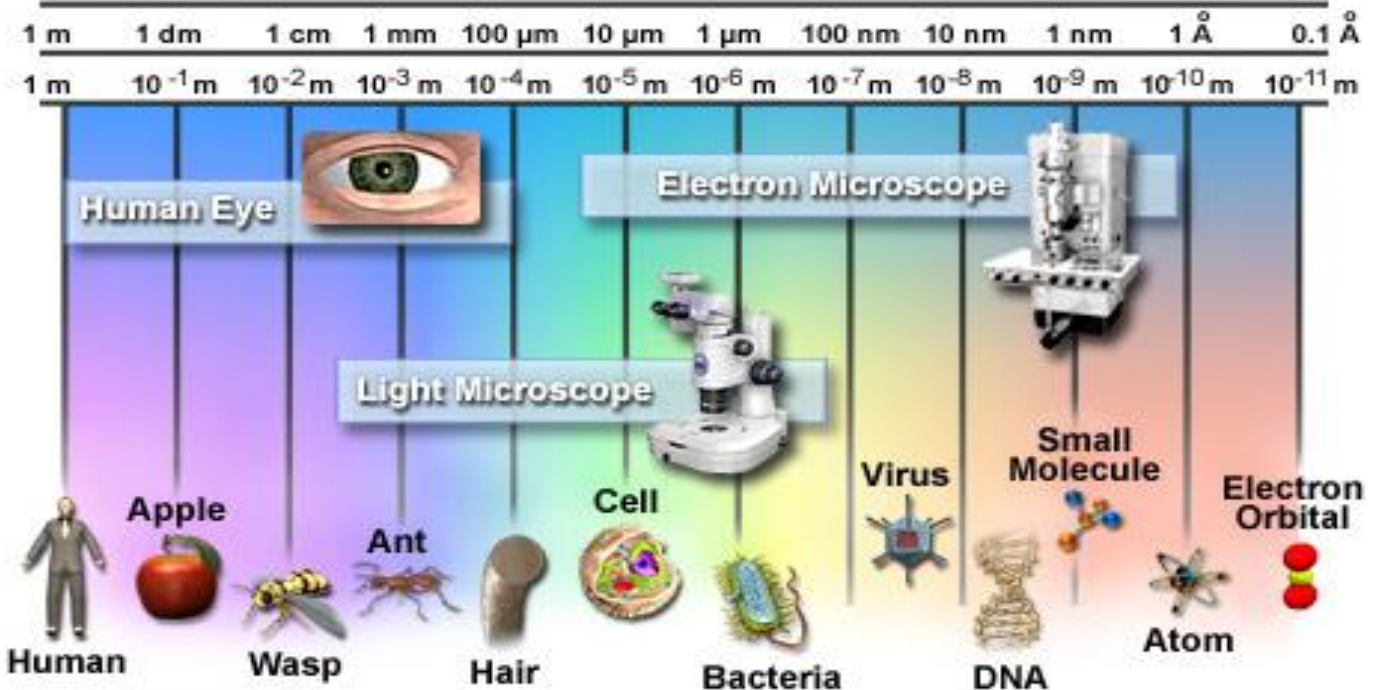
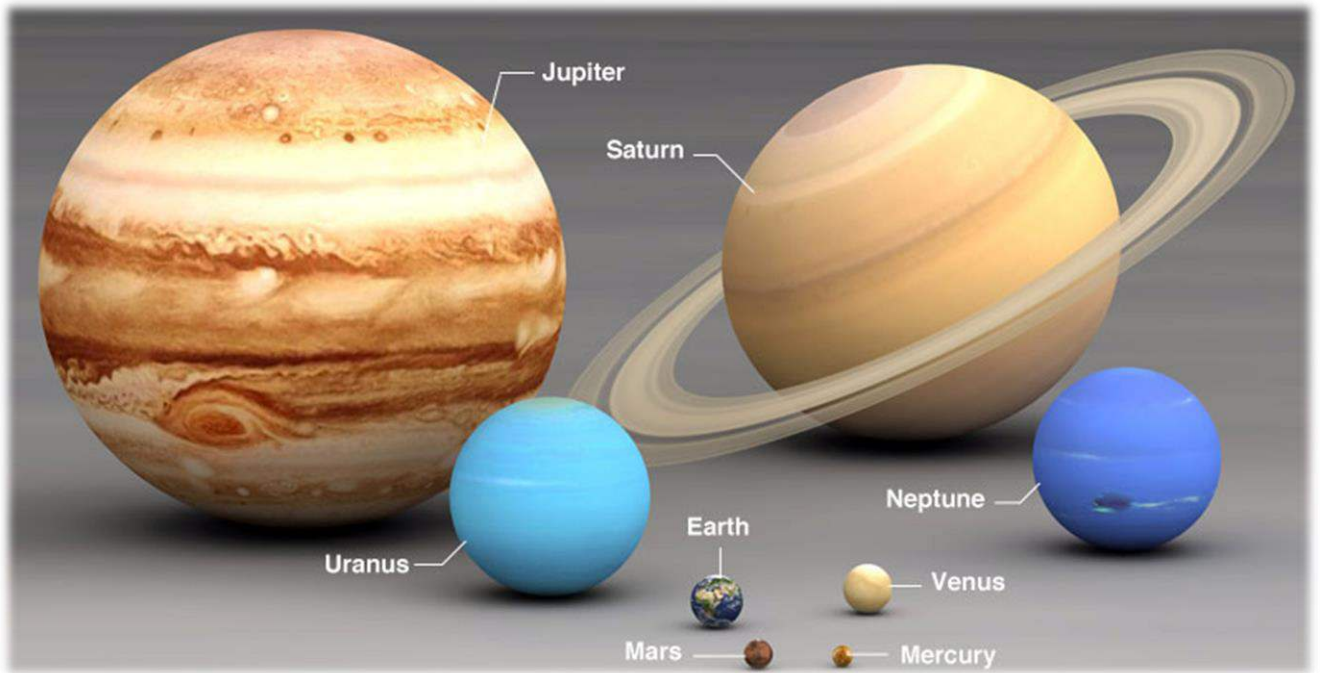
HE HAS FULL KNOWLEDGE OVER EVERY SINGLE THING THAT TAKES  
PLACE AND HE IS IN FULL CONTROL.HE IS THE ILLAH OF THE HEAVENLY STARS; HE IS THE ILLAH OF THE  
TINY ATOMS. EVERYTHING BELONGS TO HIM ONLY.THE SEAS, THE WATER, THE EARTH, THE CROPS, THE CLOUDS, THE  
WINDS, EVERYTHING BELONGS TO ALLAH

# KINGSHIP الْمَلِكُ

فَسُبْحَانَ الَّذِي فِي يَدَيْهِ مَلَكُوتُ كُلِّ شَيْءٍ وَإِلَيْهِ تُرْجَعُونَ ﴿٨٣﴾

SO EXALTED IS HE IN WHOSE HAND IS THE REALM OF ALL THINGS, AND TO HIM YOU WILL BE RETURNED. [YA-SIN: 83]

FROM MICRO TO MACRO ALL BELONGS TO THE ALMIGHTY ALLAH



SIZE COMPARISONS (FROM MICRO TO MACRO) OF VARIOUS CREATIONS OF ALLAH

# ALL-POWERFUL قَدِيرٌ

## ZAAT-E-ILAH



- We are helpless and in-capable
- Our senses and knowledge is limited

## SIFFAT-E -ILAH

[His attributes]

Only knowledge we have

### HIS QUDRAH/supremacy

- Related names of Allah are;  
الملك, القادر
- It is usually mentioned in the start of surahs.
- Believe in HIS Qudrah is cure to doubts and whispers of shaytan (وسوسه) about the Destiny, Resurrection and the Day of Judgment.

### HIS ILM/knowledge

- Related names of Allah are;  
العليم, الخبير
- It is usually mentioned in the end of surahs/ruku
- Believe in Divine Knowledge is cure to doubts (وسوسه) about how each and every deed is recorded and will be evaluated on the final day.

## KNOW YOU CREATOR

HE IS ALLAH!

THE ONE WHO CREATED YOU, ALLAH WHO FASHIONED YOU, WHO GAVE YOU LIFE, WHO NURTURES YOU AND PROTECTS YOU.

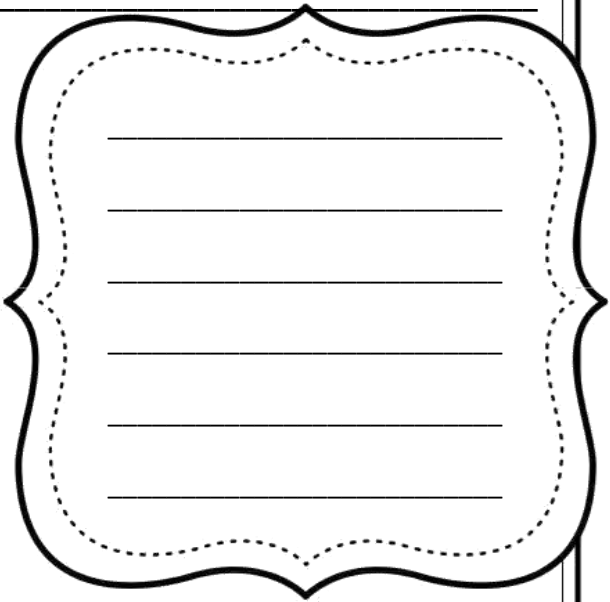
HE IS THE ONE WHO SPLITS THE SEED AND BRING THAT SPROUT FORTH.

HE KNOWS EVERY BREATH YOU TAKE, EVERY LEAF THAT FALLS, EVERY GRAIN OF SAND IN EVERY DESERT ON EARTH & EVERY STAR IN THE WHOLE UNIVERSE.



**TAFSEER --- AYAH: 1**

Handwriting practice area consisting of 20 horizontal lines. The first 15 lines span the full width of the page. The last five lines are on the left side, with a decorative frame on the right.





## Do you know?

Have you ever heard of the phrase **بَارِكُوا فِي مَا بَارَكَ اللَّهُ فِيهِ**? What does the word **بَارِك** mean?

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Do you remember the meaning of **الْمَلِكُ**?

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Does **الْمَلِكُ** refers to Earth? If not then what does it refers to? -----

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Can you name the smallest living creature on the planet Earth? -----

Which is the largest living animal on our planet? -----

Is the atom smallest unit of matter? If No, then what is? -----

Can you make a guess how many atoms are in your body? -----

What do you think how many atoms a grain of sand has? -----

What do you think how big is the hydrogen atom as compared to the proton in its nucleus?

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What do you think how big is the hydrogen atom as compared to the proton in its nucleus?

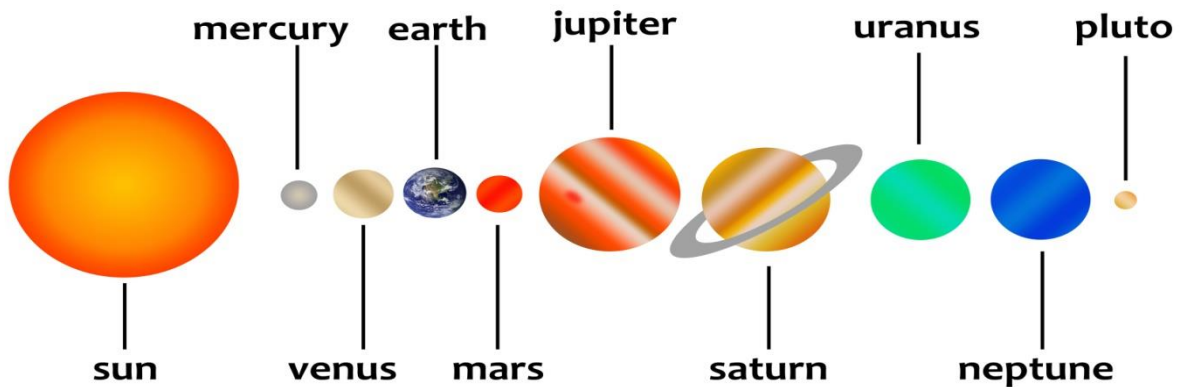
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A Flu virus is ----- times bigger than an atom.

The ----- are the tallest living creatures on the planet Earth.



## Let's fly out of the Earth



Can you number the planets of the solar system in an order of increasing mass?

\_\_\_\_\_ is the largest and \_\_\_\_\_ is the smallest planet.

\_\_\_\_\_ is tilted enough that it rolls like a barrel instead of spinning.

\_\_\_\_\_ is so big that you could fit all the other planets in the solar system inside it.

\_\_\_\_\_ is the hottest planet. Its temperature reaches about 500°C. Its surface is described as stormy desert.

\_\_\_\_\_ is home to Olympus Mons, the largest volcano in our solar system, it stands 21km high and is 600km across the base.

\_\_\_\_\_ is the windiest planet. It is also called the blue planet.

The Sun holds about \_\_\_\_\_ % of the mass of the solar system.

About \_\_\_\_\_ Earths can fit into the Sun.

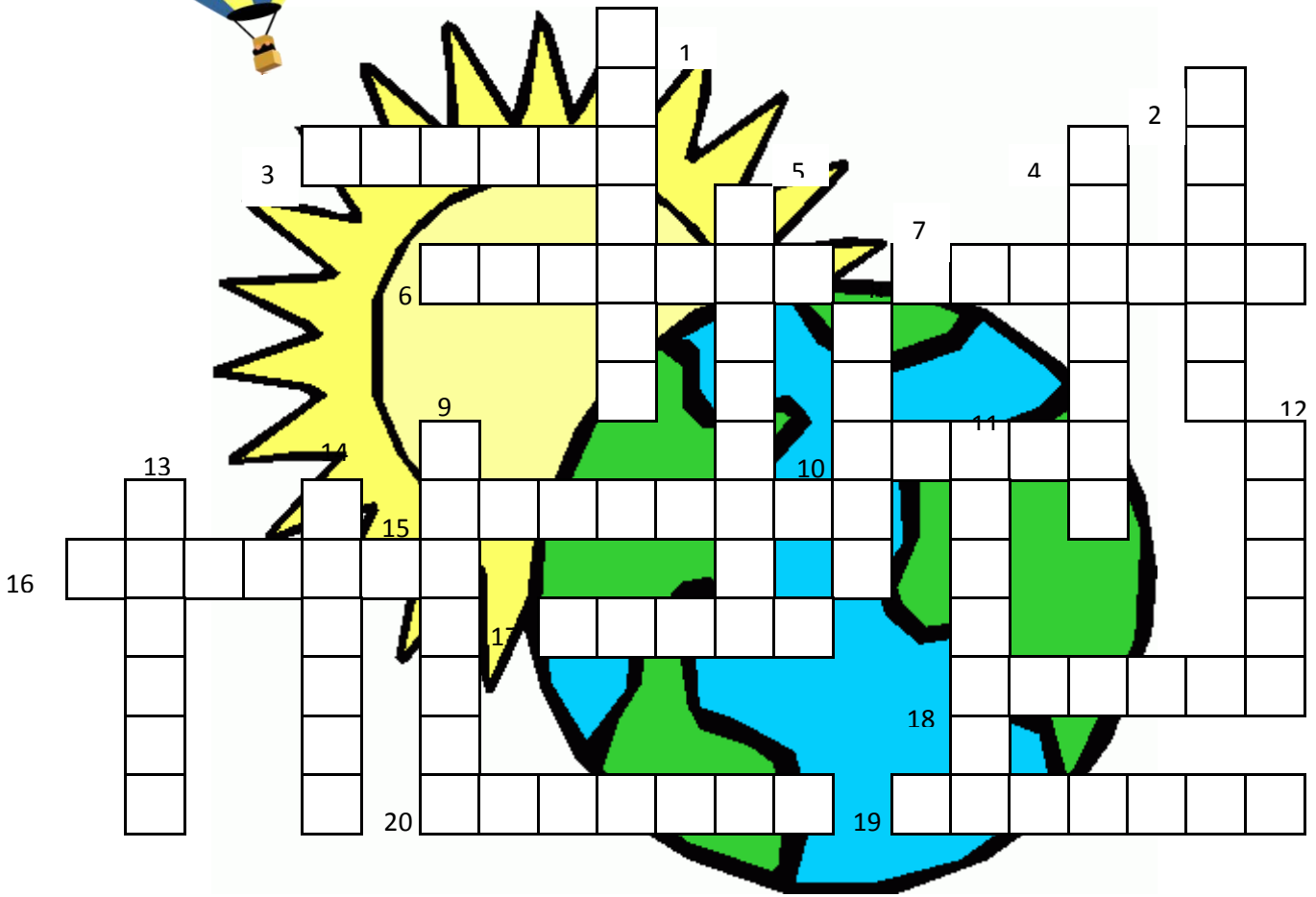
Saturn has \_\_\_\_\_ of rings around it. And about \_\_\_\_\_ Earths can fit into the Saturn's ring.

\_\_\_\_\_ is almost of the same size as the Earth.

If there was a bathtub big enough to hold the planet \_\_\_\_\_, it would float in the water!



# Let's have some fun



## Across

3. The blue Whale is \_\_\_\_\_ than the elephant. It is also the largest animal in the world.
6. The \_\_\_\_\_ is the fastest land animal.
7. The River Nile is the \_\_\_\_\_ river on Earth.
10. Saturn has hundreds of \_\_\_\_\_ around it.
15. Pluto is the \_\_\_\_\_ planet in the solar system.
16. Mercury is the \_\_\_\_\_ planet to the sun.
17. Mars is the \_\_\_\_\_ red planet.
18. \_\_\_\_\_ is bigger than Earth, but smaller than Saturn.
19. Mount Everest is the \_\_\_\_\_ mountain on Earth.
20. \_\_\_\_\_ is the closest planet to the sun.

## Down

1. The African Elephant is the \_\_\_\_\_ land animal.
2. \_\_\_\_\_ is the biggest country.
4. Jupiter is the \_\_\_\_\_ planet in the solar system.
5. Pluto is also the \_\_\_\_\_ planet from the sun.
8. The planet we live on is called \_\_\_\_\_.
9. The \_\_\_\_\_ is the biggest and heaviest bird in the world.
11. \_\_\_\_\_ is also called the blue planet.
12. \_\_\_\_\_ is the second-closest planet to the sun.
13. Saturn is the second-largest \_\_\_\_\_ in the solar system.
14. Venus is the \_\_\_\_\_ closest planet to the sun.



# TO CREATE خَلِقُ

الَّذِي خَلَقَ الْمَوْتَ وَالْحَيَاةَ لِيَبْلُوَكُمْ أَيُّكُمْ أَحْسَنُ عَمَلًا وَهُوَ الْعَزِيزُ الْغَفُورُ ﴿٢﴾

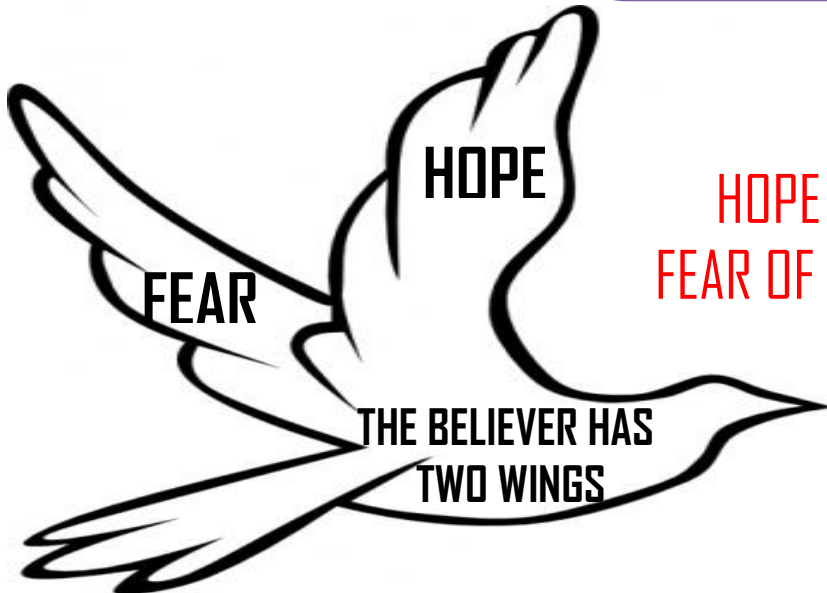
[HE] WHO CREATED DEATH AND LIFE TO TEST YOU [AS TO] WHICH OF YOU IS BEST IN DEED - AND HE IS THE EXALTED IN MIGHT, THE FORGIVING --- ayah:2

## العزیز

- The Strong, Mighty one.
- The Invincible, unbeatable.
- This name has a warning signal, causes fear i-e (ترهیب)

## الغفور

- The Great Forgiver.
- The one who covers faults.
- This name has an encouraging signal, generates hope i-e (ترغیب)



HOPE IN ALLAH'S MERCY  
FEAR OF ALLAH'S PUNISHMENT

# TAFSEER ---AYAH: 2

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# TO CREATE خَلِقُ

سُورَةُ الْمَلِكِ

Section1: ayah(1-4)  
[Greatness of ALLAH]

الَّذِي خَلَقَ سَبْعَ سَمَاوَاتٍ طِبَاقًا مَا تَرَى فِي خَلْقِ الرَّحْمَنِ مِنْ تَفَوتٍ فَأَرْجِعِ الْبَصَرَ هَلْ تَرَى  
مِنْ فُطُورٍ ۚ

[AND] WHO CREATED SEVEN HEAVENS IN LAYERS. YOU DO NOT SEE IN THE CREATION OF THE MOST MERCIFUL ANY INCONSISTENCY. SO RETURN [YOUR] VISION [TO THE SKY]; DO YOU SEE ANY BREAKS? ---

ayah:3

## NAMES OF ALLAH RELATED TO CREATION

FROM THE ROOT OF (ب - د - ا)

الْمُبْدِي

THE ORIGINATOR, BEGINNER

The founder of creation.

الْبَدِيعُ

THE UNIQUE ORIGINATOR

The One who created the creation and formed it without any preceding example.

THE كُن (TO BE) OF ALLAH (S.W.T)

FROM THE ROOT OF (خ - ل - ق)

الْخَالِقُ

THE CREATOR, PLANNER

The One who brings things into existence from a state of non-existence.

The One who determines and creates according to the proper measure and proportion.

THE BEGINNING OF TIME (t=0)

One above the other : طِبَاقًا

The seven heavens are stacked one on top of another. These are seamless. You can't see where one ends and where another begins.

الرَّحْمَنُ :

The Most Lovingly Beneficent, The Most Kind and Giving,  
The Most Gracious, The Infinitely Good



## THE MIRACLE OF CREATION [Fussilat : 9-12]

"Say (O Muhammad): Do you verily disbelieve in Him Who created the earth in two Days? And you set up rivals with Him? That is the Lord of the 'Aalameen

He placed therein firm mountains from above it, and He blessed it, and measured therein its sustenance (for its dwellers) in four Days equal (i.e. equal in the length of time) for all those who ask.

Then He rose over (Istawa) towards the heaven when it was smoke, and said to it and to the earth: 'Come both of you willingly or unwillingly.' They both said: 'We come willingly.'

Then He completed and finished from their creation (as) seven heavens in two Days and He made in each heaven its affair. And We adorned the nearest heaven with lamps to be an adornment as well as to guard. Such is the Decree of Him, the All-Mighty, the All-Knower"

### LET'S STUDY THE CREATION OF UNIVERSE THROUGH QURAN

The heaven (As-sama) was initially smoky.

From this hazy heaven earth was created in TWO DAYS.

7 heavens were invented & fashioned in equal layers in TWO DAYS.

Then the Earth was organized & was made habitable in TWO DAYS.

وَلَقَدْ خَلَقْنَا السَّمَوَاتِ وَالْأَرْضَ وَمَا بَيْنَهُمَا فِي سِتَّةِ أَيَّامٍ وَمَا مَسَّنَا مِنْ لُغُوبٍ ﴿٣٨﴾

"And indeed We created the heaven and the Earth and all between them in six days and nothing of fatigue touched us". (Surah Qaf :38)

Here "Day" means a stretch of time whose length is only known by ALLAH

# الرَّحْمَنِ

## THE MOST MERCIFUL

From the root **r-h-m** which has the following classical Arabic meaning of:

- ✓ To have tenderness, gentleness, kindness
- ✓ To have mercy, to have pity
- ✓ To show favor and goodness

**Ar-Rehman's** endless mercy and beneficence embrace all of HIS creation.

According to some scholars the special rehman of Allah mentioned in this verse is the perfect **GRAVITATIONAL BALANCE** in the cosmos.

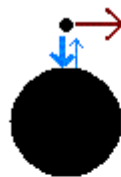
A perfect balance between the forces of **inertia** and **gravity** is what make heavenly bodies to float in an orbit. An object with a lot of mass goes forward and wants to keep going forward; however, the gravity of another body in space pulls it in. There is a continuous tug-of-war between the one object wanting to go forward and away and the other wanting to pull it in.



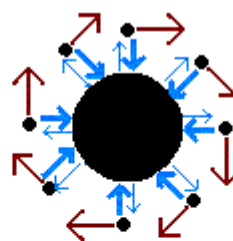
PERFECT  
GRAVITATIONAL  
BALANCE



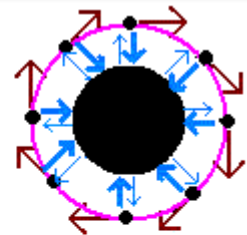
Object speeds by a planet with a lot of momentum



Gravity attracts the object to the planet and vice versa



Object continues to try to move forward, but is pulled down by gravity.



The result is a balance of forces pushing the object out and pulling it in, making a circular orbit.

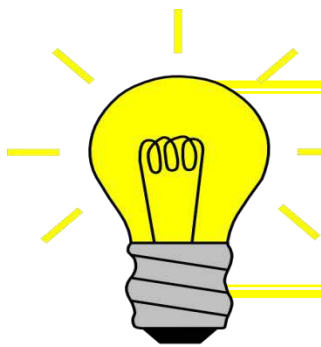
A SLIGHT  
IMBALANCE CAN  
BE HAZARDOUS



Forward speed is much greater than gravity, object continues moving through space.

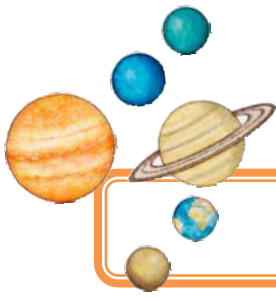


Gravity is much greater than forward speed, objects collide.



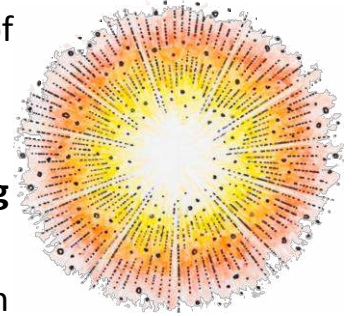
Do you remember the  
Names of ALLAH?

NAME	MEANING	CONTEXT	ROLE IN LIFE



## Let's recap the story of creation

**THE BEGINNING:** About 14 billion years ago (estimated age of universe), the whole universe was inside a tiny bubble whose nature is difficult for our minds to grasp. It was incredibly hot and dense. Then, there was a colossal explosion, the **Big Bang** and this created matter and energy. Scientists think the universe was made in one trillionth of a trillionth of a trillionth of a second (or in no time).



*The big bang*

Can you recall an ayah from Quran that tells us about the beginning of universe and its initial state?

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"The universe was made in no time". What does this reminds you about?

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*Solar System, as a rotating disc of gas and dust.*

**CREATION OF EARTH:** The Solar System formed from a giant cloud of dust and gas. This cloud collapsed under the weight of its own gravity and began to move around in a giant circle. GRAVITY slowly gathered this gas and dust together into clumps that became small early planets. These collided repeatedly and gradually got bigger, building up the planets including the Earth.

Can you recap the process of creation as mentioned in the Quran

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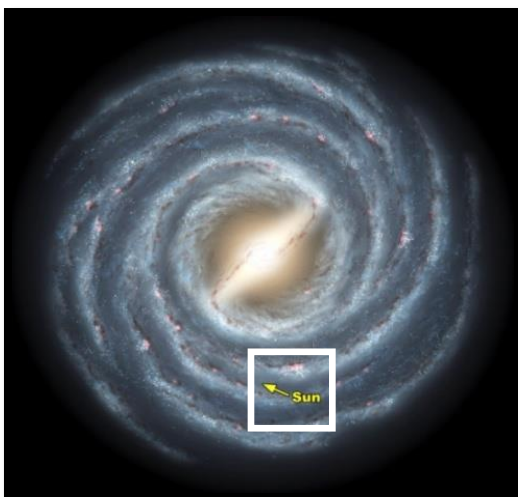
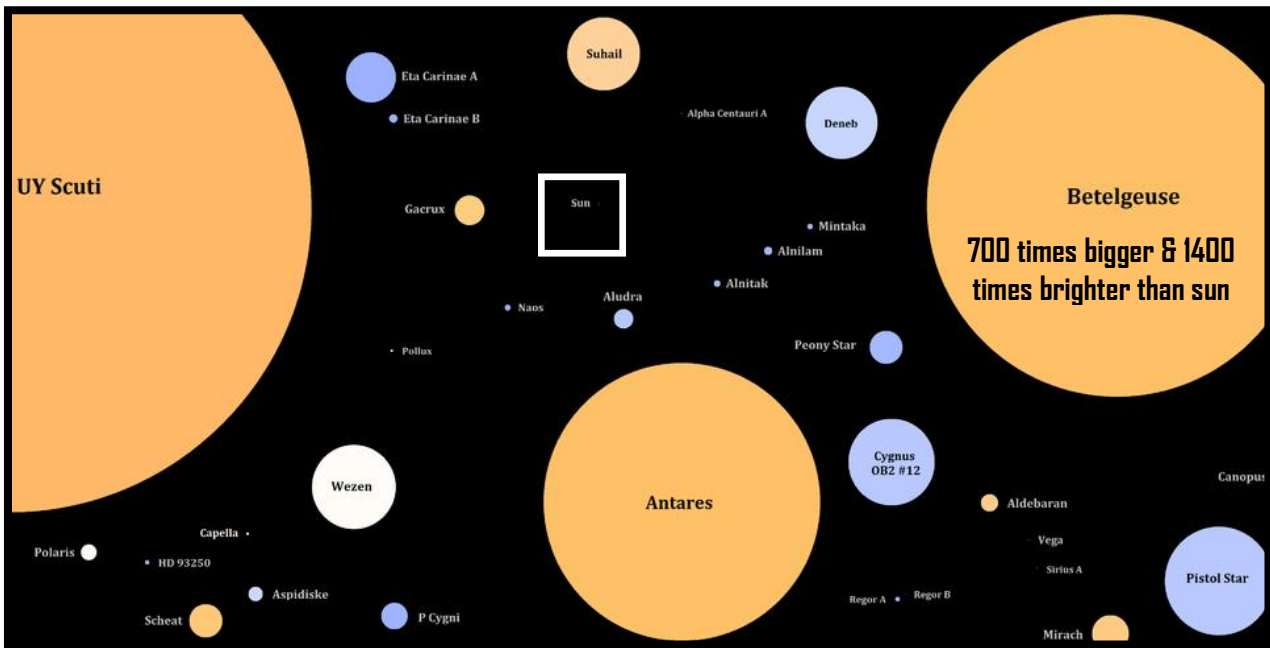
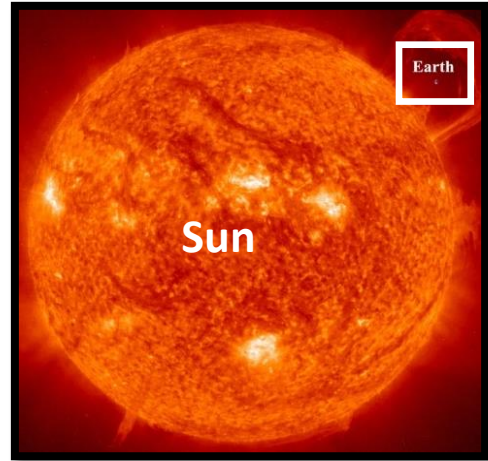
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# THE SEVEN HEAVENS سَبْعَ سَمَوَاتٍ

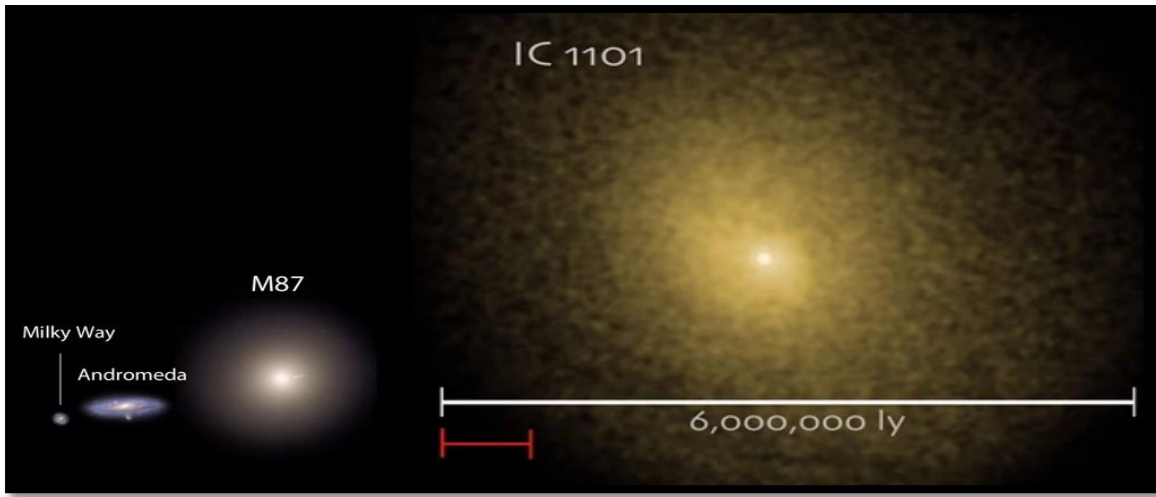
LET'S OBSERVE THE VASTNESS OF THE NEAREST HEAVEN السَّمَاءِ الدُّنْيَا

**S**un is the only star of our solar system. About 1,300,000 Earths can fit inside the sun. It may be the biggest thing in the solar system but is just an average star as compared to other stars. There are over 200 billion stars in our galaxy "The Milky Way". Most of them are much bigger than sun.



**M**ilky Way is a spiral galaxy that is home to our solar system. It is about 1,000,000,000,000,000 km across (about 100,000 light years). But it's puny as compared to other galaxies. The observable universe is estimated to contain about 200 billion to 2 trillion galaxies.

**YES! YOU ARE NOT THE CENTER OF THE UNIVERSE**

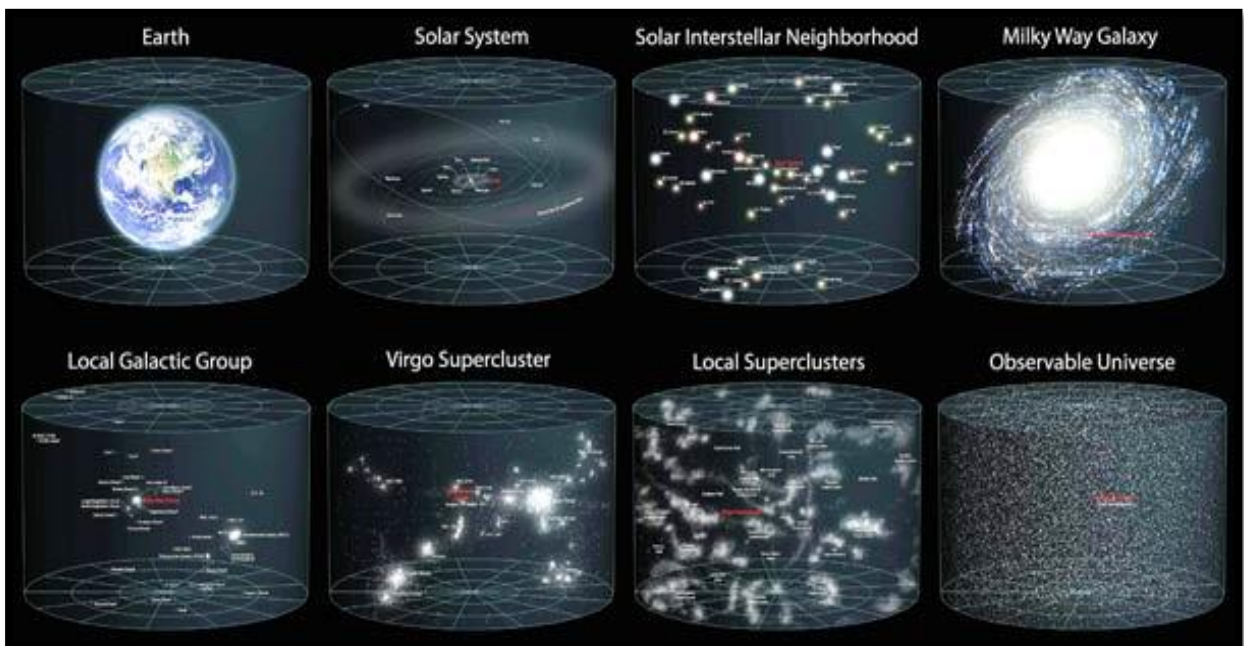


وَالسَّمَاءَ بَنَيْنَاهَا بِأَيْدٍ وَإِنَّا لَمُوسِعُونَ ﴿٤٧﴾

And the heaven We constructed with strength, and indeed,  
We are [its] expander. [Ad-Dhariyat:47]

If you were to step outside right now, you'd only be able to see as far as your eyes could see. Nevertheless, you do know that there is life beyond that. There is more on this planet than what you can see. Similarly, the **observable universe** is the only part of the universe we can see from our location in space. There is a lot more beyond our cosmic light horizon.

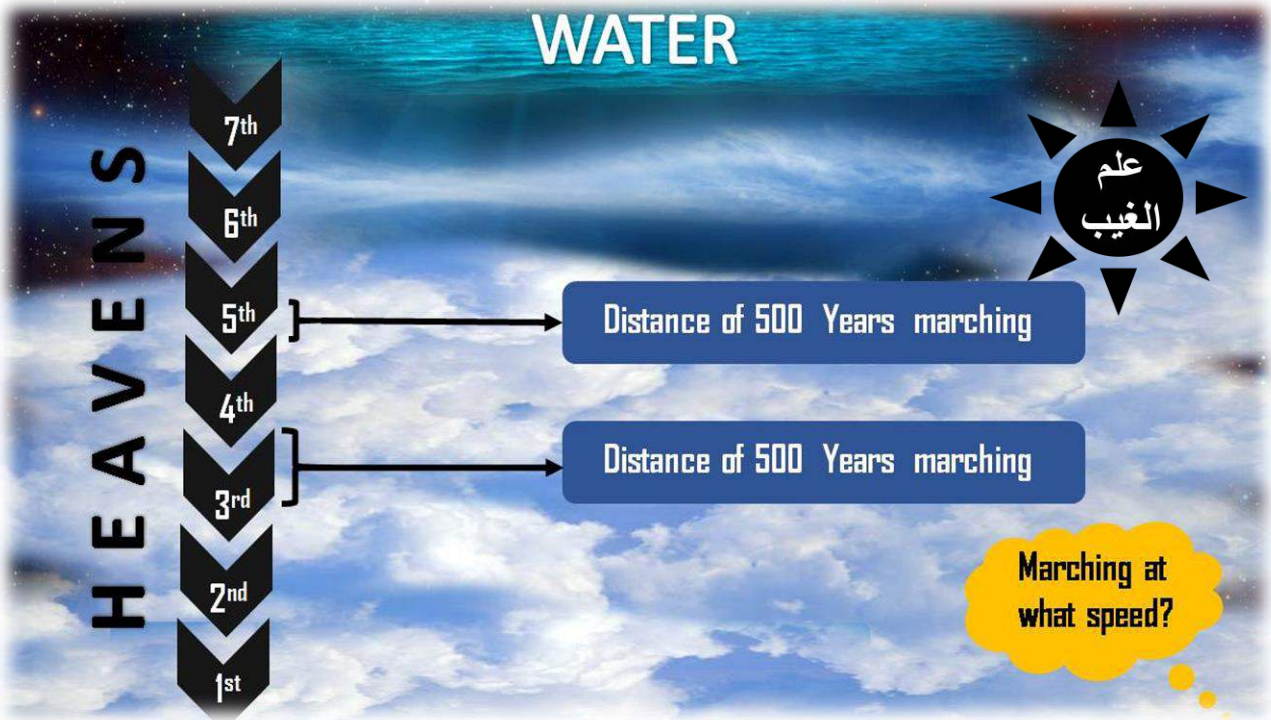
The power of gravity bends light. This means the objects astronomers are looking at might not be there where they appear to be. Also there is **acceleration in the expansion of the universe**. In June 2016, NASA and ESA scientists reported that the **universe** was found to be **expanding** 5% to 9% faster than thought earlier, based on studies using the Hubble Space Telescope.



**YOUR LOCATION IN THE OBSERVABLE UNIVERSE**

# THE SEVEN HEAVENS سَبْعَ سَمَوَاتٍ

From the tiny **atom of hydrogen** to the **peak of Mount Everest**, from our **Earth** to the **Jupiter**, from the **Sun** to the **Betelgeuse**, from our **Milky Way** to the largest **galaxy** and beyond all belongs to ALLAH (s.w.t). And to your surprise ... **ALL OF THIS IS IN THE LOWEST HEAVEN & ALLAH HAS CREATED SEVEN HEAVENS** stacked one upon another. And the scientists have yet no idea at all.



The hierarchy of the seven heavens (as told by the Prophet (s.a.w)).  
We are clueless about their structure and composition.  
Only Allah knows the exact reality.



ثُمَّ ارْجِعِ الْبَصَرَ كَرَّتَيْنِ يَنْقَلِبْ إِلَيْكَ الْبَصَرُ خَاسِئًا وَهُوَ حَسِيرٌ ﴿٤﴾

Then return [your] vision twice again. [Your] vision will return to you humbled while it is fatigued. -- *AYAH:4*



How this ayah does inspire you?

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Can you make a rough guess about the scale size of the *known* universe?

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Research and write two ahadith about the vastness and greatness of the seven heavens, the Kursi and the Arsh of Allah (s.w.t).

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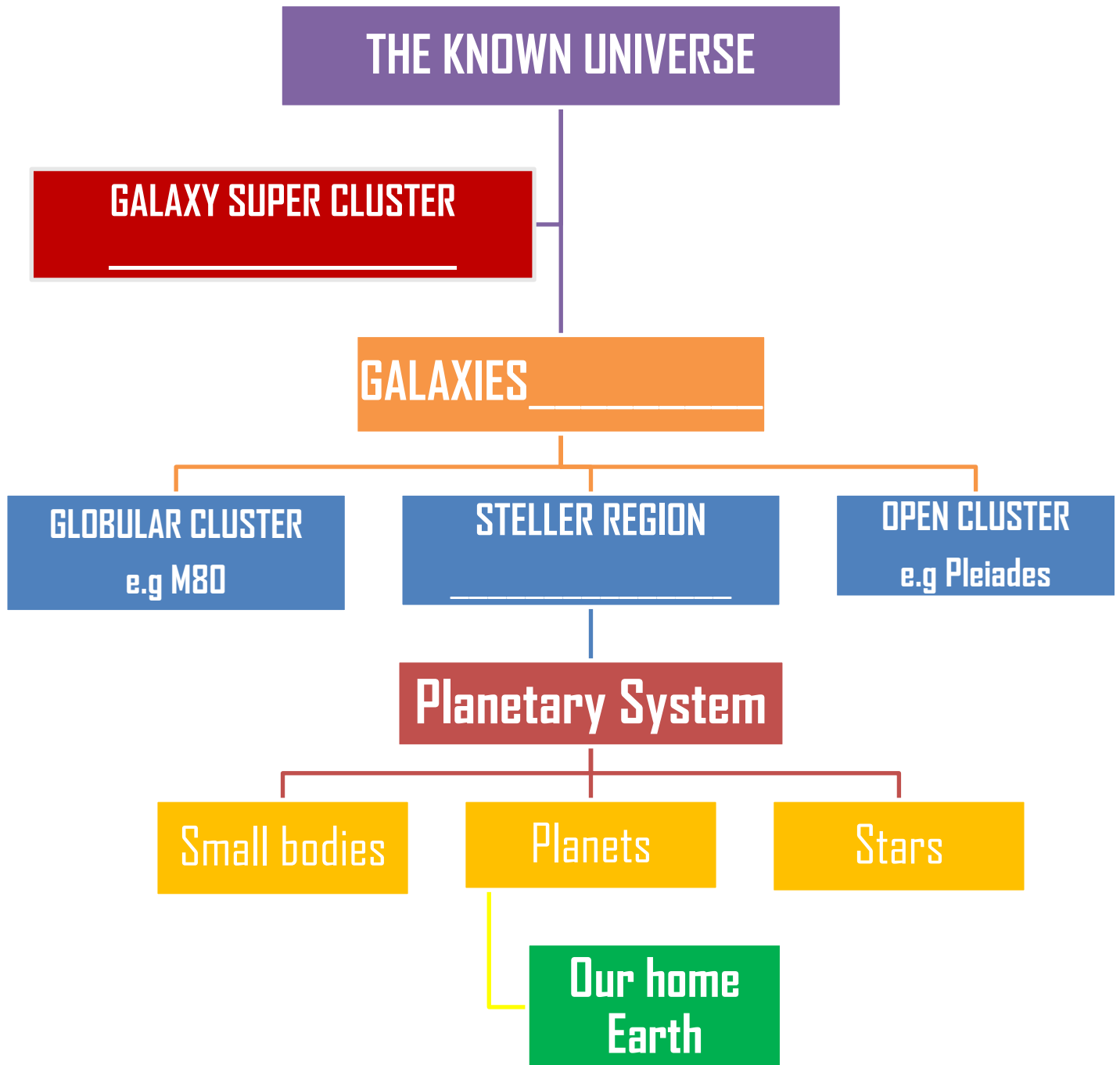


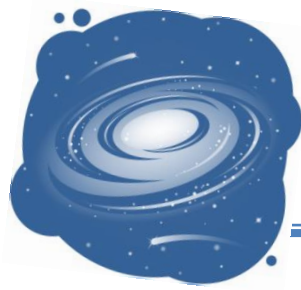
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# KNOW YOUR NEIGHBORS





## Let's explore the universe

Can you write your universal address?

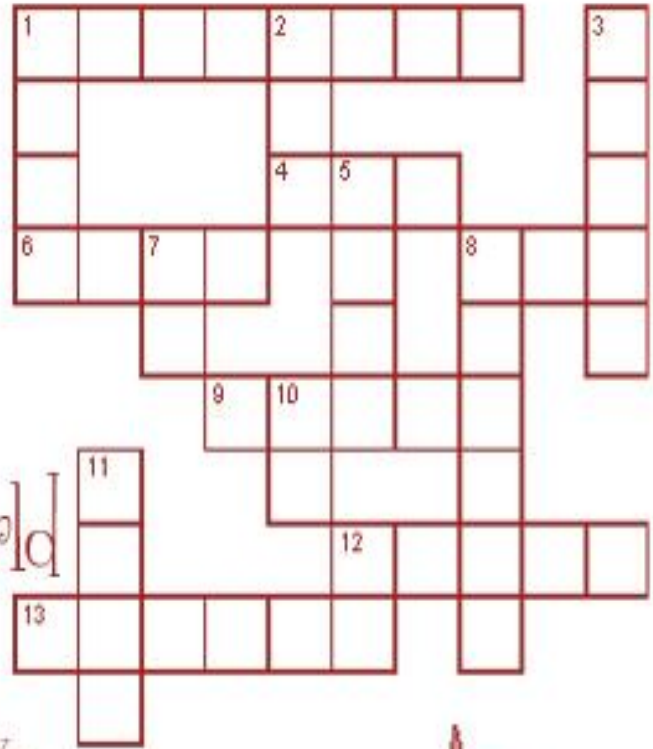
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Choose the right option:

- Astronomers believe that there are some \_\_\_\_\_ superclusters in the observable universe.  
(1 million)                      (1 billion)                      (10 million)
- \_\_\_\_\_ are the largest known structures in the universe.  
(Stars)                      (Galaxies)                      (SuperClusters)
- Typically Supercluster, is a group of 3 to 10 \_\_\_\_\_ spanning as many as 200,000,000 light-years.  
(Galaxies)                      (Galaxy Clusters)                      (Stars)
- The Sagittarius Dwarf Elliptical Galaxy is the next closest galaxy to the Milky Way , at about 662,000,000,000,000 km from the Sun. This distance is about \_\_\_\_\_ light- years.  
(70,000)                      (7, 000 )                      (70 )
- Milky Way belongs to the Local Group. The number of galaxies in the Local Group is \_\_\_\_\_.  
(25)                      (more than 40)                      (20 million)
- It takes \_\_\_\_\_ time for the sunlight to reach the Earth.  
(8 hours)                      (8 sec)                      (8 min)
- The Sirius is the brightest star we can see in our night sky. It takes light from sirus \_\_\_\_\_ to reach earth.  
(9 hours)                      (9 years)                      (9 months)
- Light covers \_\_\_\_\_ distance every second.  
(1000 km)                      (300,000 km)                      (70 km)

# Outer Space



## Across Boggle's World

1. Our galaxy
4. An alien's spaceship.
6. A light in the night sky.
8. \_\_\_ is
9. Halley's \_\_\_\_\_ comes every 76 years.
12. Our planet.
13. What do you use to travel to the moon?



The sun

mercury

venus

earth

mars

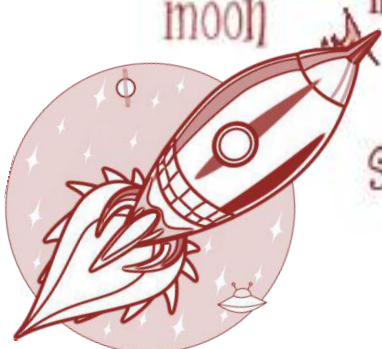
jupiter

saturn

neptune



moon

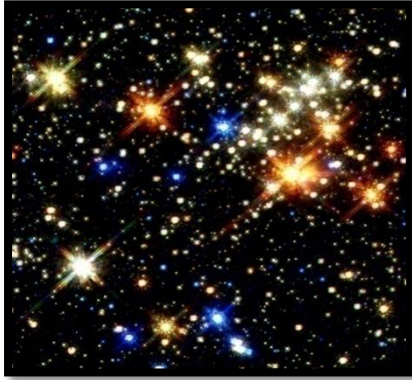


Down

1. The red planet.
2. \_\_\_ are
3. Someone from outer space.
5. I come \_\_\_\_\_ mars.
7. I \_\_\_
8. A planet with rings.
10. Land \_\_ the moon.
11. The Earth's friend.
12. Another name for alien.

وَلَقَدْ زَيَّنَّا السَّمَاءَ الدُّنْيَا بِمَصَابِيحَ وَجَعَلْنَاهَا رُجُومًا لِلشَّيْطَانِ وَأَعْتَدْنَا لَهُمْ عَذَابَ السَّعِيرِ

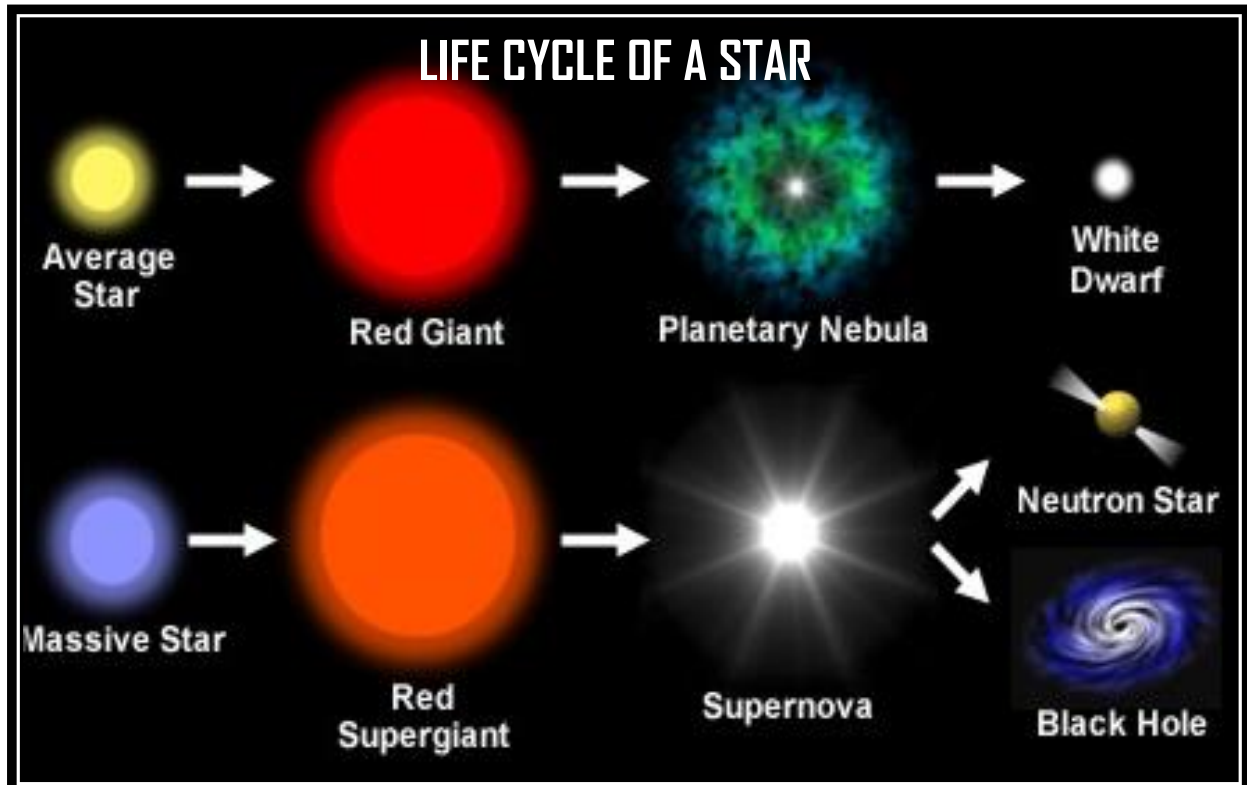
And We have certainly beautified the nearest heaven with stars and have made [from] them what is thrown at the devils and have prepared for them the punishment of the Blaze. -- *AYAH:5*



with **STARS** بِمَصَابِيحَ

**Lanterns/ Lamps:** Metal/ glass container filled with fuel, lightened and usually hanged high for illumination.

A star is a massive, bright, sphere of very hot gas called **Plasma** which is held together by its own **gravity**. Stars are giant nuclear reactors. They get their fuel by **Nuclear Fusion** in their centers. i-e nuclei combine to form a stable one (e.g common stars burn hydrogen into helium).





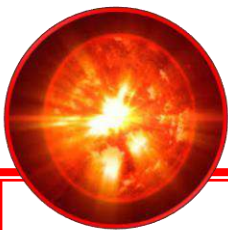


# LIFE CYCLE OF A STAR

## MAIN SEQUENCE STAGE



Star **burns energy** and glows for about **billions of years**. A star spends majority of its life in this state. In this stage a **balance** is met between the force of **gravity** shrinking the star and the **heat** energy expanding it. This is the stage our **SUN** is currently in.



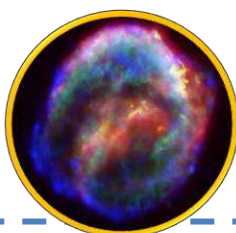
## RED / SUPER RED GIANT

When a star runs out of fuel, it starts **dying**. Its center shrinks and the outside expands. It becomes a **RED GIANT** or a **SUPER RED GIANT** depending upon its starting mass.

## DEATH OF A STAR

### THE FATE OF A STAR IS DETERMINED BY ITS MASS

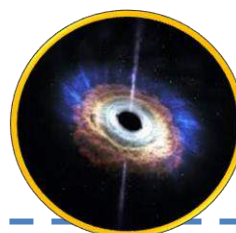
HIGH MASS STARS ( $>8M_{\odot}$ ) greater than 8 solar masses	LOW MASS STARS ( $<8M_{\odot}$ ) less than 8 solar masses
They have shorter lives as they consume their fuel. Faster.	They spend most of their lifetime in the main sequence stage.
They explode as massive bright " <i>supernova</i> ".	They become small " <i>white dwarfs</i> " and emit white light.
The explosion leaves behind either a small " <i>neutron star</i> ", entirely composed of neutrons. A teaspoon of which weights a few tons	They keep emitting the white light until they finally darken into " <i>black dwarfs</i> ".



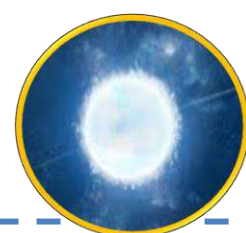
SUPERNOVA



NEUTRON STAR



BLACK HOLE



WHITE DWARF

# SHOOTING STARS

وَجَعَلْنَاهَا رُجُومًا لِلشَّيْطَانِ وَأَعْتَدْنَا لَهُمْ عَذَابَ السَّعِيرِ

... and have made [from] them [stars] what is thrown at the devils and have prepared for them the punishment of the Blaze.

Every day, Earth is bombarded with more than 100 tons of dust and sand sized particles, mostly the leftovers of the formation of stars and planets.



## ASTEROID

A relatively small, inactive, rocky body orbiting the Sun.



## COMET

A dusty snowball. It can vaporize in sunlight forming a tail of dust and gas.



## METEOROID

A small particle from a comet or asteroid orbiting the Sun.



## METEOR

The light phenomena which results when a meteoroid enters the Earth's atmosphere and vaporizes.



## METEORITE

A meteoroid that survives its passage through the Earth's atmosphere and lands upon the Earth's surface.

## SHOOTING STAR

is a common name for the visible path of a *meteoroid* as it enters the atmosphere, becoming a *meteor*.

About **once a year**, an automobile-sized asteroid hits Earth's atmosphere, creates an impressive fireball, and burns up before reaching the surface.

**Every 2,000 years** or so, a meteoroid the size of a football field hits Earth and causes significant damage to the area.

Only **once every few million years**, an object large enough to threaten Earth's civilization comes along. Impact craters on Earth, the moon and other planetary bodies are evidence of these occurrences.



# The story of stars

## Do you know?

Qatadah said: "Allah created these stars for three purposes: to adorn the heavens ,to stone the devils and as signs by which to navigate. Whoever seeks anything else in them is mistaken and does not benefit from them, and he is wasting his time and effort in seeking something of which he has no knowledge." (Bukhari)

List down the false things people associate with stars?

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---

DRAW THE LIFE CYCLES OF THE HIGH AND THE LOW MASS STARS

What is the current stage the SUN is in? & what do you predict about it's future?

---

---

---

Connect each word to its best description.

- |                |   |
|----------------|---|
| 1. Star        | The medium size star in our solar system                        |
| 2. Sun         | To shine brightly   |
| 3. Core        | A star that does not give off light                             |
| 4. Glow        | A glowing ball of gas   |
| 5. Red Giant   | A giant explosion that took place in space a very long time ago |
| 6. Expand      | The middle  |
| 7. Black Dwarf | A large star that glows red                                     |
| 8. Big Bang    | To grow larger  |

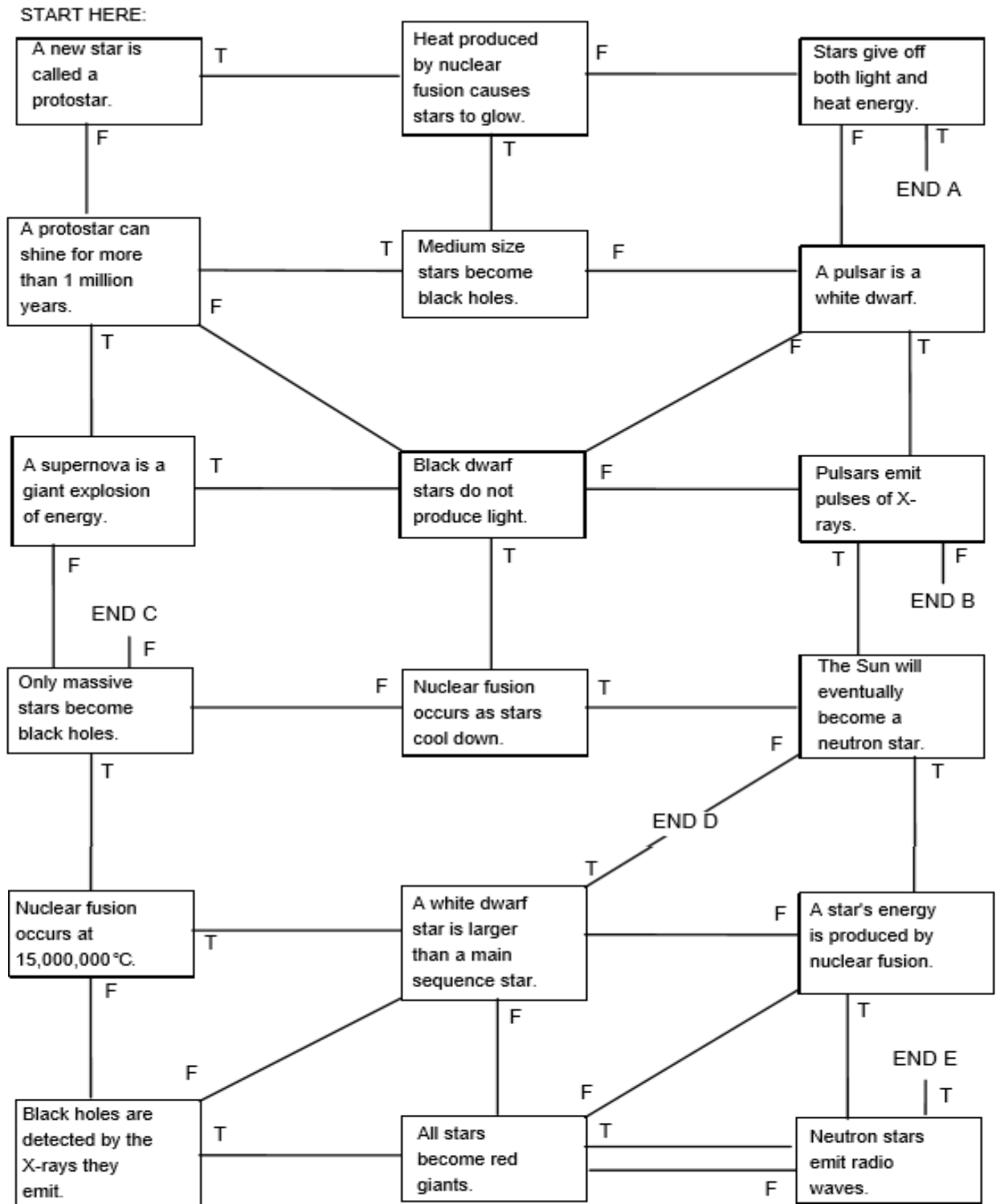
How many star terms can you find hidden in the puzzle below?

hot, atoms, nebula, supernova, neutron, red giant, cycle, sphere, energy, fusion, core, galaxy, hydrogen, evolve, gas, cloud, glow, x-ray

N G F C E L S I U A A  
E N T U L S D W C I L  
B O N A S S P E O G U  
U R A I H I M H R D B  
L T I G Y E O O E E E  
E U G A D T V N T R N  
L E D L R O E L W A E  
C N E A O R D U O L C  
Y A R X G A S Y L V U  
C T O Y E N A I G X E  
A A V O N R E P U S N

# THE AMAZING STARS

Use what you have learned about stars to find your way through the maze below. Begin at the start box, carefully read the statement in each box and decide if it is true or false. You will move from box to box by following the directional arrows (T = TRUE, F = FALSE). Continue to follow the arrows until you reach the true end of the maze (END E). All other exits are incorrect. got off track. If you exit at A, B, C, or D, retrace your steps to find where you got off track.





## TEST YOURSELF

1. Do you know what stars are? And do they also die?

---

2. Can you explain what a Supernova is?

---

3. Under what circumstances a star suffers a death?

---

4. Do all stars end up into black holes?

---

5. What is an asteroid?

---

6. Can you tell where does the asteroid belt of our solar system is?

---

7. Can you guess what type of meteorite is this?

---



8. Can you name some other types of meteorites?

---

9. From where do meteorites come from?

---

10. Differentiate:

Meteoroid	Meteor	Meteorite



## Your Creativity at its best

### MODEL OF STAGES OF LIFE OF A LOW MASS STAR

It goes through over billions of years, as a gas cloud, to its death as a black dwarf.

#### MATERIALS REQUIRED:

- Tape
- Tissue paper and cotton batting
- String of indoor lights with white, red, orange, and yellow bulbs
- Different-sized spherical light globes either clear or white (ranging from 1 to 5 inches in diameter)
- opaque black ball (or you could paint a light globe)

#### PROCEDURE:

1. Punch 6 holes in a piece of cardboard or cotton batting and insert one of the lights through each hole. You might need to tape them in place.
2. To show the birth of a star as a hot gas cloud, wrap the outside of a globe in cotton and place it over the first bulb of the string of lights.
3. For a newborn star, have an orange light inside a 3-inch globe.
4. For a steady star, have a yellow light inside a 2-inch globe.
5. For a red giant, have a red light inside a 5-inch globe.
6. For a planetary nebula, have a red light inside a 3-inch globe. Wrap crumpled tissue paper around the outside of the globe.
7. For a white dwarf, have a white light inside a 1-inch globe.
8. For a black dwarf, have a 1 inch black opaque globe. No lights should be used for the black dwarf.

The globes used for the various stages are not to scale. Do a simple calculation to see why...if a steady star is 1.4 million km in diameter (and represented by a 2-inch globe), how big the red giant globe would have to be on the same scale



## MODEL A BLACK HOLE

This demonstration allows for a visual depiction of the effect of a large mass on the fabric of space-time. In particular, what affect a black hole does or doesn't have on the other stars around it and how that effect depends on the mass of the black hole.

### MATERIALS:

- Large latex balloon cut open and pulled flat, or sheet of latex
- Round bowl, 4" - 5" in diameter
- Tape
- Package of small round beads
- 1" solid ball bearing (the eraser end of a pencil can be used as a replacement)

### PROCEDURE:

1. Tape the sheet of latex (this represents space-time) tightly across the top of some round object...such as a bowl. The sheet should not be so tight that it will tear if stretched further, but should be taut enough that there are not any wrinkles!
2. Scatter a few beads on the sheet of latex (this represents matter that is near the black hole). Make sure they are spread out to all parts of the sheet.
3. Gently drop the ball bearing onto the sheet of latex (this represents the black hole). Try not to let it bounce! If you don't have a ball bearing, gently push down on the center of the sheet with the eraser end of a pencil.
4. Explain what happened to the matter when the black hole was put into place. Why did this occur?
5. What would happen if the ball bearing was heavier (or if you push harder on the pencil)? What physical analogy to the black hole may be made?

## WARNING FOR THE DISBELIEVERS

وَلِلَّذِينَ كَفَرُوا بِرَبِّهِمْ عَذَابُ جَهَنَّمَ وَيَسُ الْمَصِيرُ ﴿٦﴾ إِذَا الْقُوفُ فِيهَا سَمِعُوا لَهَا شَهيقًا وَهِيَ تَفُورُ ﴿٧﴾  
 تَكَادُ تَمَيِّزُ مِنَ الْغَيْظِ كُلَّمَا أُلْقِيَ فِيهَا فَوْجٌ سَأَلَهُمْ خَزَنَتُهَا أَلَمْ يَأْتِكُمْ نَذِيرٌ ﴿٨﴾ قَالُوا بَلَى قَدْ جَاءَنَا نَذِيرٌ فَكَذَّبْنَا وَقُلْنَا  
 مَا نَزَّلَ اللَّهُ مِنْ شَيْءٍ إِنْ أَنْتُمْ إِلَّا فِي ضَلَالٍ كَبِيرٍ ﴿٩﴾ وَقَالُوا لَوْ كُنَّا نَسْمَعُ أَوْ نَعْقِلُ مَا كُنَّا فِي أَصْحَابِ السَّعِيرِ ﴿١٠﴾  
 فَأَعْتَرَفُوا بِذُنُوبِهِمْ فَنَسَحُوا لَهَا أَصْحَابِ السَّعِيرِ ﴿١١﴾

And for those who disbelieved in their Lord is the punishment of Hell, and wretched is the destination. When they are thrown into it, they hear from it a [dreadful] inhaling while it boils up. It almost bursts with rage. Every time a company is thrown into it, its keepers ask them, "Did there not come to you a warner?" They will say, "Yes, a warner had come to us, but we denied and said, 'Allah has not sent down anything. You are not but in great error.'"  
 "And they will say, "If only we had been listening or reasoning, we would not be among the **companions of the Blaze**. And they will admit their sin, so [it is] alienation for the companions of the Blaze."

*Surah Al-Mulk*

--- **AYAHS: 6 - 11**



# THE BLAZING FIRE السَّعِير

It rises and flares up high when fuel is added to it. And its fuel is men and stones. It is a never ending furious fire. That will burn the disbelievers forever.



جَهَنَّمَ وَبِئْسَ الْمَصِيرُ...  
HELL....A desolate DESTINATION

جَهَنَّمَ means "a deep pit". It's a pit of fire.

**DEPTH:** Abu Hurairah reported: "While we were in the company of Allah's Messenger(s.a.w) we heard a terrible sound. Thereupon, Allah's Messenger said, 'Do you know what that sound is? When we answered, 'Allah and His Messenger know best.' He said. "That is a stone which was thrown into Hell seventy years ago and has been constantly falling until now when it finally reached the bottom." [Muslim]

**SOUND:** Even before these wrongdoers see the fire, they hear it. The sound of Jahannam شَهِيْقًا is like the sorrowful braying of a donkey on its last breath.

**ANGER:** Jahannam is a fire with life. It is a preying creature, reaching out to consume its inhabitants. It boils and erupts as if it were - تَمِيْرُ exploding in fury

Those who disbelieved in their Rubb. 'Rubb" is the Master who owns, loves, provides, and nurtures his slaves. The disbelievers' ingratitude have made them as worthless as TRASH, since they have forgotten their purpose of creation. Just like TRASH they are now polluted and useless in ALLAH'S Sight and will ultimately end in degradation.



## DO YOU KNOW!

Hellfire is surrounded by tempting things and sins appear attractive to us; but what these sins lead to is really horrific.

**DOOR OF HELL** (a glimpse of Jahannum), Turkmenistan  
It's a natural gas carter. It was set on fire to prevent the spread of methane gas, and has been burning continuously since 1971.





إِنَّ الَّذِينَ يَخْشَوْنَ رَبَّهُم بِالْغَيْبِ لَهُمْ مَغْفِرَةٌ وَأَجْرٌ كَبِيرٌ ﴿١٢﴾

Indeed, those who fear their Lord unseen will have forgiveness and great reward. ---Ayah: 12

## بِالْغَيْبِ (THE UNSEEN)

Sun is the most evident entity in our Sky, but we are unable to look at it directly because of its dazzling light. Likewise, the AlMighty is evident in HIS dominion over the heavens and the Earth. We can't see him yet HE is near.

**"And We are nearer to him than his jugular vein (by Our Knowledge)."**  
[50:16]

He is with His slaves by His knowledge. He is above His Throne and nothing is hidden from Him of what they do.

**Say: 'None in the heavens and the earth knows the Ghayb (Unseen) except Allaah...'[al-Naml 27:65]**

Believe in unseen is the basis of faith e.g: believe in Allah, His Angles, His Arsh, His Kursi, the seven heavens, resurrection, the day of judgment, Jannah and Jahannam .

## يَخْشَوْنَ (FEAR OF ALLAH)

It means being conscious of Allah. The term 'fear' in its literal meaning is used rarely in Quran. Most words are translated imprecisely. E-g;

To warn, beware --- أَنْذَرَ

To regard --- تَعَدَّبَ

Quran introduces Allah as Rehman and Rahim in surah Fatiha. Every Surah starts with bismillah, reminding Allah as Rehman and Rahim.

BELIEVERS	DISBELIEVERS
FEAR ALLAH IN PRIVATE	DEFIANT OF ALLAH IN PUBLIC
كَبِيرٌ أَجْرٌ (GREAT REWARD)	ضَلَلٌ كَبِيرٌ (GRAVE ERROR)
مَغْفِرَةٌ GET (FORGIVENESS)	رِسْدَةٌ GET(HUMILIATION)



وَأَسْرُوقَوْلِكُمْ أَوْ أَجْهَرُوا بِهِ إِنَّهُ عَلِيمٌ بِذَاتِ الصُّدُورِ ١٣  
أَلَا يَعْلَمُ مَنْ خَلَقَ وَهُوَ اللَّطِيفُ الْخَبِيرُ ١٤

**And conceal your speech or publicize it; indeed, He is Knowing of that within the breasts. Does He who created not know, while He is the Subtle, the Acquainted?**



One of the two most important attributes of ALLAH (S.W.T) is HIS KNOWLEDGE

All-Knowing, HIS knowledge about past, present and future is certain and complete in all aspects.

The Gentle, The Subtle One, Who is knowledgeable of all the miniscule matters, Nothing is hidden from Him of thoughts, hopes and secrets, Who is kind and loving to His slaves.

The Fully Aware ,Whose knowledge encompasses all outward and hidden matters, HE knows every whisper exchanged anywhere

عَلِيمٌ

اللَّطِيفُ

الْخَبِيرُ

ALLAH knows all our affairs - He knows even our innermost thoughts. In fact, He knows us better than we know ourselves. There is both a hope and warning in these names for us. We should fear what we make apparent and what we keep hidden in ourselves and should hope for a good reward. We should also try to act with gentleness and subtlety as it is the Sunnah of Allah (S.W.T)

**How does this ayah inspire you?**

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هُوَ الَّذِي جَعَلَ لَكُمُ الْأَرْضَ ذَلُولًا فَامْشُوا فِي مَنَاكِبِهَا وَكُلُوا مِن رِّزْقِهِ وَإِلَيْهِ النُّشُورُ ﴿١٥﴾

It is He who made the earth tame for you - so walk among its slopes and eat of His provision - and to Him is the resurrection. ---Ayah:15

ذَلُولًا: HUMBLLED, SUBDUED, LAID DOWN, SUBSERVIENT, OBEDIENT:

...The Earth is tamed by ALLAH (s.w.t) just like a wild horse is tamed. The Earth is humble. And we are fashioned from the Earth! So Humbleness should be our

فَامْشُوا: To walk, continue, move around:

رِّزْقِهِ: Allah's gift, He dedicated it- dwelling, sustenance, livelihood

النُّشُورُ: Resurrection, rolling back, unfold, spreading out, blossom:

Allah encourages us to explore the earth and earn the RIZQ ALLAH has laid for us. But no matter how far we roam and how much we flourish, all the credit goes back to Allah who makes things possible. We will also return to him. Our ultimate blossoming is the Resurrection –

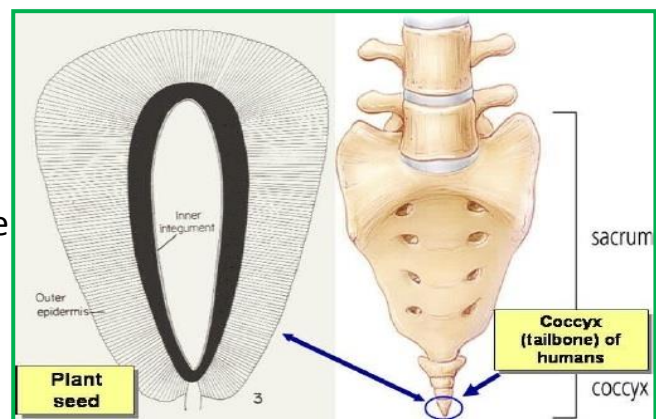
THE SEEDS WE SOW WILL DETERMINE WHAT WE REAP IN THE HEREAFTER.

DO YOU KNOW?

We have a RESURRECTION BONE!

عَظْمُ النُّشُورِ (tail bone)

And to your surprise it looks a lot like a plant seed. Just like a plant grows from a tiny seed buried deep in the soil, we will breathe a new life from our tail bone buried under the soil.









## REVIEW: Ayah 6- 15

السَّعِيرِ is the word used for the fire in the shooting stars and also for the hell fire. What does it mean and what are the characteristics of this fire?

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“If only we had been LISTENING or REASONING, we would not be among the companions of the blaze”. What does this dialogue of أَصْحَابِ السَّعِيرِ mean?

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What qualities should a believer must develop to achieve مَغْفِرَةً وَأَجْرًا كَبِيرًا?

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What does “Resurrection” mean?

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What is the example that Qur’an gives to explain resurrection?

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## IMMEDIATE THREATS

١٦ أَمْ أَمِنْتُمْ مَن فِي السَّمَاءِ أَنْ يَخْسِفَ بِكُمُ الْأَرْضَ فَإِذَا هِيَ تَمُورٌ  
 ١٧ أَمْ أَمِنْتُمْ مَن فِي السَّمَاءِ أَنْ يُرْسِلَ عَلَيْكُمْ حَاصِبًا فَسَتَعْلَمُونَ كَيْفَ نَذِيرِ  
 ١٨ وَلَقَدْ كَذَّبَ الَّذِينَ مِن قَبْلِهِمْ فَكَيْفَ كَانَ نَكِيرِ

Do you feel secure that He who [holds authority] in the heaven would not cause the earth to swallow you and suddenly it would sway? Or do you feel secure that He who [holds authority] in the heaven would not send against you a storm of stones? Then you would know how [severe] was My warning. And already had those before them denied, and how [terrible] was My reproach.

--- Ayah: 16 - 18

The universe and all of its inhabitants are in a state of complete submission to ALLAH; Rebellion is only on Earth! So ... **أَعْمِنْتُمْ** Do you feel secure? This isn't a question, but an expression of rage. How come you feel so safe between the sky and the Earth, in ALLAH's dominion?

**YOU ARE NOT SECURE AT ALL!**

**نَذِير :**

Warning is the speech of Allah and HIS Warner is the Prophet (s.a.w)

**نَكِير :**

Cunningness, Craftiness,  
Scheming against the enemy,  
Outsmarting and defeating them,  
That which is unknown, unusual  
Extreme difficulty,  
Denial,





**TAFSEER ---AYAH: 16-18**

Lined writing area for the main text.

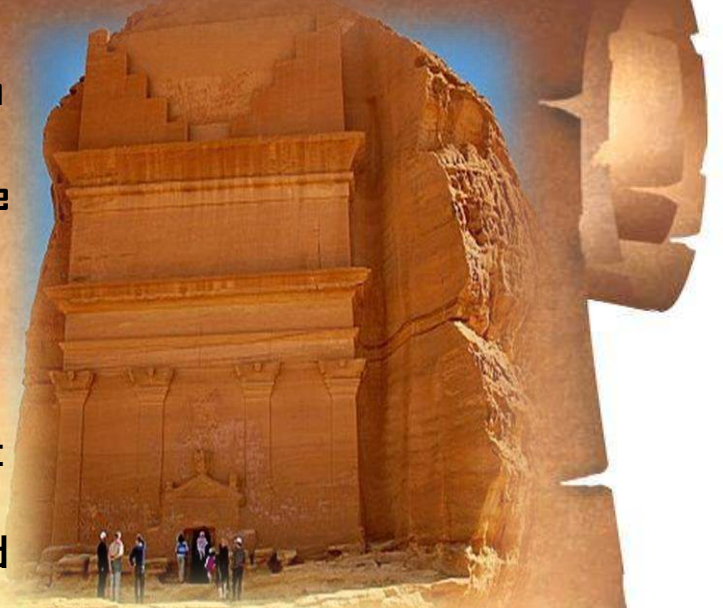
Decorative callout box with a scalloped border and internal lines for notes.

وَلَقَدْ كَذَّبَ الَّذِينَ مِن قَبْلِهِمْ فَكَيْفَ كَانَ نَكِيرِ ۝١٨

And already had those before them denied, and how [terrible] was My reproach.

### THE STORY OF THAMUD

Thamūd is an ancient civilization in the Hejaz known from the 1st millennium BC. Their land was made of Rocky Mountains and spacious fertile plains. They carved huge houses out of the mountains. They deviated from the right path and started to worship idols. Allah sent Prophet Saleh to them. They held Saleh in high esteem, but discarded his message.



They asked him to show them a sign from Allah that he was indeed a prophet. They asked to create a she-camel out of a rock. The huge rock moved and split and from it came a wonderful huge she-camel. Some of them believed and followed Prophet Saleh. But the disbelievers, however, were very much bothered by her. They plotted to kill her and slaughter her. When Prophet Saleh heard of the horrible crime, he warned them of Allah's punishment. But on the contrary, they not only disbelieved in the threat but also decided to kill Saleh (a.s).

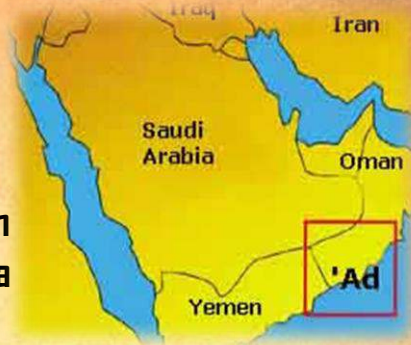
Prophet Saleh warned them to wait for three days. They waited for three days not believing that Allah's punishment would reach them. On the third day, when the sun rose above the horizon, a mighty blast overtook them, followed by a terrible earthquake that left them lying dead in their homes.

The area was left barren as if nobody had lived there before!

## THE STORY OF AD

**Ād** was an ancient tribe usually placed in Southern Arabia, in a location referred to as "*al-Ahqaf*" (الأحقاف) "the Sandy Plain. 'Ad is regarded as one of the original Arab tribes, the "lost Arabs". Their capital may have been what is known as "*Iram dhat al-'Imad*" (إرم ذات العماد, Iram of the Pillars) in the Qur'an. The 'Adites', formed a prosperous nation until they were destroyed in a violent storm. They were the descendents of Noah.

The people of Ad were extremely powerful and wealthy and they built huge buildings and monuments to show their power. Allah provided them with very productive and green lands and water springs. They used a highly developed irrigation system.



Allah sent his messenger Hud to call them to believe in Allah and not to worship idols. But they denied his prophethood. In the Qur'an, 'Ad are said to have perished through a "furious wind". A drought came first as a sign of Allah's wrath. Instead of repenting they began to ask their idols for rain.

Then one day the people saw the cloud that would bring them calamity, but could not understand what it was and thought that it was a rain cloud. It was a terrible sand storm. A wall of dust-laden air several thousand feet in height lifted by the strong rising currents and stirred by a fairly strong wind approached them. The wind blew for seven days and nights and made them all like fallen palm trees.

All of their fertile and cultivated fields, finest buildings, irrigation canals and dams were covered by sand, and the whole city and its inhabitants were buried alive under the sand. After the people were destroyed, desert spread there in time and covered them leaving no trace.

أَعْمِنْتُمْ Do you feel secure from swallowed by the Earth?  
أَعْمِنْتُمْ Do you feel secure from a storm of stones from sky?



TWO RHETORICAL QUESTIONS FOLLOWED BY A CALL OF REFLECTION

أَوَلَمْ يَرَوْا إِلَى الطَّيْرِ فَوْقَهُمْ صَفْتٍ وَيَقْبِضْنَ مَا يُمَسِّكُهُنَّ إِلَّا الرَّحْمَنُ إِنَّهُ بِكُلِّ شَيْءٍ بَصِيرٌ

Do they not see the birds above them with wings outspread and [sometimes] folded in? None holds them [aloft] except the Most Merciful. Indeed He is, of all things, Seeing.

Withhold - restrain, hold back; grab; abstain from; مَسِكُهُنَّ

#### DEFING THE BELIEF OF SOME MODREN, MUSLIM INTELLECTUALS

They believe that ALLAH created the universe and its laws. And now the universe is functioning by itself. Just like a football that needs an initial push and then moves on its own and can keep moving forever in absence of friction.



THINK DEEP! THIS IS A REJECTION OF MIRICLES & ALLAH'S QUDRAH


**ALLAH IS الرَّزَّاقُ : THE SUSTAINER OF THE UNIVERSE,**  
**HE IS الْوَلِيُّ : THE PROTECTING ASSOCIATE,** الْمُقِيتُ  
**:THE NOURISHER, الْوَهَّابُ : THE SUPREME GIVER AND الْقَوِيُّ**  
**: THE POSSESSOR OF ALL STRENGTH**



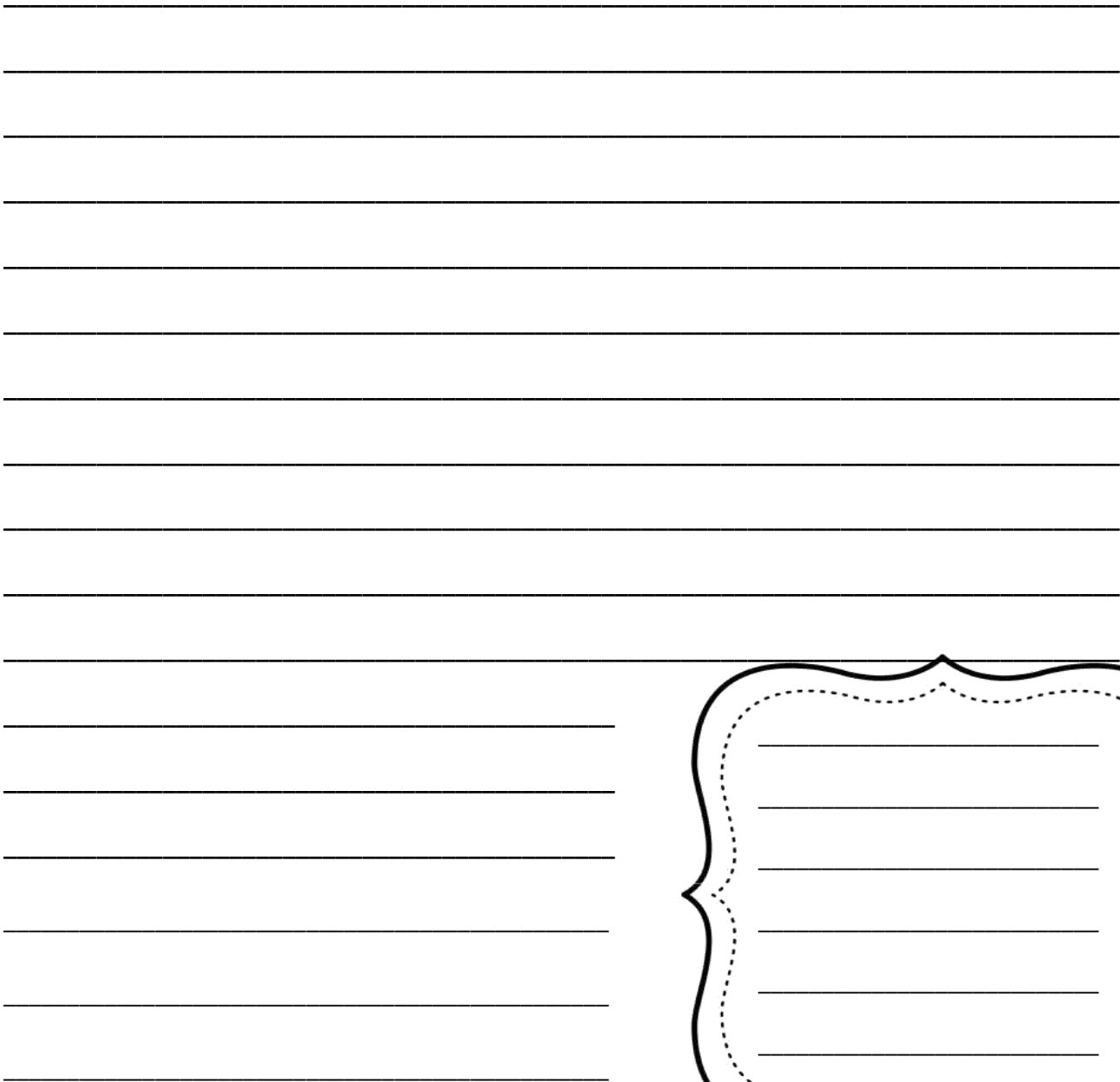
HE CREATED THE FIRE THAT BURNS,  
BUT FOR IBRAHIM (A.S) ALLAH COOLED IT DOWN.

HE CREATED THE OCEANS THAT DROWN,  
BUT FOR MUSA (A.S) ALLAH MADE A WAY THOUGH IT.

ALL LAWS OF NATURE ARE OBEDIENT TO ALLAH (S.W.T)



**TAFSEER --- AYAH: 19**

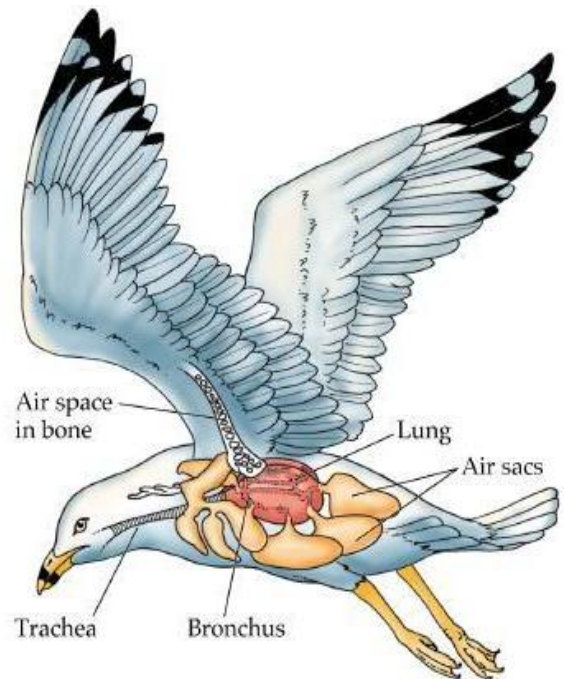


A large rectangular area with horizontal lines for writing, and a smaller decorative frame with horizontal lines in the bottom right corner.

# THE FLIGHT OF BIRDS

## THE SECRETS OF FLYING

- The wings are air foil shaped.
- The bones are hollow and light weight.
- Strong breast muscles help to flap wings and give them the thrust to move through the air.
- Feathers provide a solid surface to push against the air, giving it lift.
- Tail provides stability as they take-off and land. By twisting its tail, the bird can change its direction mid-flight.
- Air sacs make up 1/5<sup>th</sup> of the body's volume.
- 3/4 of the air it breathes is used to cool down the body temperature.



## MIGRATION FACTS

Bar tailed godwit travels from Alaska to New Zealand. It flies nonstop for 9 days and nights, without eating, drinking and stopping for rest. This 11,000-kilometer journey is the longest non-stop flight undertaken by any bird.

Bar headed goose do the world's highest bird migration at about 7000m. It travels in the Jet stream current at 33,382 feet at -59°C. It travels 1000 miles a day at extreme temperature. At high altitudes, where oxygen is less, it breathes more efficiently.

## DIVINE INSPIRATION

- Birds migrate at the same time every year. They have some sort of internal clock/intuition.
- They follow their routes accurately without any navigational help. And return back to their old nests the next season.
- They have an extraordinary ability of covering distances. No other creature on Earth is capable of covering such long distances.
- Some birds ride the wind to fasten their journey. They use the Jet stream currents.
- Some birds can fly for several days and night non-stop. During these long flights half of their brain sleeps and no one knows how!





## BIRD'S MIGRATION

What do you think why do the birds migrate?

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---

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How do the migrating birds find their way?

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Which bird endures the world's longest migration?

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At what heights do the bar headed geese fly?

---

How do birds manage to travel very long distances?

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---

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How do the birds know when, where and how to migrate?

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# Let's be Creative!

## MODEL A BIRD FEEDER

This bird feeder will fill your home garden with birds. It will allow you to observe birds in your vicinity. Take notes about their behavior, anatomy and flight.

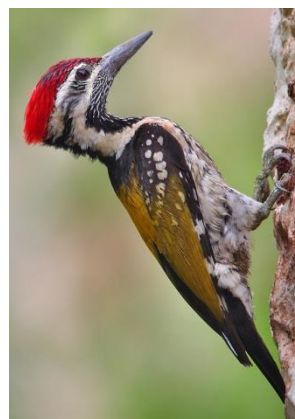
Choose a design of your choice:





# BIRD HUNT

Visit your bird's feeder daily. Observe for about 15 - 20 min. You can also go on a walk for birds watching. The best places to watch are hiking tracks of Margalla Hills and surroundings of Rawal Lake. Seventy-two species of birds have been found in this area. These are a few examples of birds found in Islamabad.



How many of these did you find either on your walk or at your feeder?

---

---

---

Name the other birds you found? Which one did you find the most?

---

Did the time of day made any difference?

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# Bird watching journal

Design you know bird watching journal. Record information about each of the bird you observe. Following is a sample sheet.

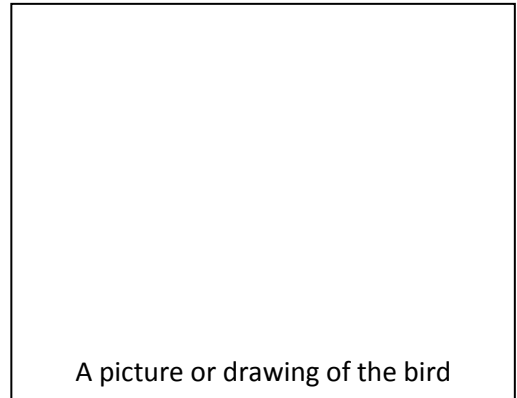
**BIRD'S NAME** \_\_\_\_\_

**BIOLOGICAL NAME** \_\_\_\_\_

**LOCATION** \_\_\_\_\_

**DAY** \_\_\_\_\_ **TIME** \_\_\_\_\_

**No. OF OBSERVATIONS** \_\_\_\_\_



## WHAT I NOTICED ABOUT THIS BIRD

**COLOUR AND MARKINGS** \_\_\_\_\_

### BEAK SHAPE:

Cone shaped      Hooked      Flat &Wide      Long&Thin      Short&Pointed

### WING SHAPE:

Gliding      Hovering      HighSpeed      RapidTakeoff      Soaring

### TAIL SHAPE:

Short&Fluffy      Hooked      Long&Contoured      Long&Thin      Pointed

**In what kind of habitat it resides?**

\_\_\_\_\_

**Is it a migratory bird? If yes, where does it migrates and why?**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

أَمَّنْ هَذَا الَّذِي هُوَ جُنْدٌ لَكُمْ يَنْصُرُكُمْ مِنْ دُونِ الرَّحْمَنِ إِنَّ الْكُفْرَانَ إِلَّا فِي غُرُورٍ ﴿٢٠﴾  
أَمَّنْ هَذَا الَّذِي يَرْزُقُكُمْ إِنْ أَمْسَكَ رِزْقَهُ، بَلْ لَجُّوا فِي عُتُوٍّ وَنُفُورٍ ﴿٢١﴾

Or who is it that could be an army for you to aid you other than the Most Merciful? The disbelievers are not but in delusion. Or who is it that could provide for you if He withheld His provision? But they have persisted in insolence and aversion. ---Ayah; 20-21



The BEAUTIFUL  
NAME OF ALLAH  
الرَّحْمَنُ

غُرُورٍ :

False hopes, deception, illusion, arrogance

INSIDE OF THE MOST STUBBORN OF THE DISBELIEVERS

Extreme in arguing, stubborn, bursts out, irrational: بَلْ لَجُّوا

When a wave rises up, to go overboard, to pass the limit: عُتُوٍّ

Hatred, running away, doesn't accept no matter what: وَنُفُورٍ

أَفَمَنْ يَمْشِي مُكِبًّا عَلَى وَجْهِهِ أَهْدَىٰ أَمَّنْ يَمْشِي سَوِيًّا عَلَىٰ صِرَاطٍ مُسْتَقِيمٍ ﴿٢٢﴾

Then is one who walks fallen on his face better guided or one who walks erect on a straight path?---Ayah; 22

TWO RHETORICAL QUESTIONS .... أَمَّنْ هَذَا الَّذِي  
FOLLOWED BY A CALL OF REFLECTION!

WHO WALKS FALLEN ON HIS FACE?

- THE ONE WHO IS BLIND
- THE ONE WHO IS WALKING IN THE DARK
- THE ONE WHO IS WALKING ON AN UNEVEN PATH





قُلْ هُوَ الَّذِي أَنْشَأَكُمْ وَجَعَلَ لَكُمُ السَّمْعَ وَالْأَبْصَرَ وَالْأَفْئِدَةَ قَلِيلًا مَّا تَشْكُرُونَ ﴿٢٣﴾  
قُلْ هُوَ الَّذِي ذَرَأَكُمْ فِي الْأَرْضِ وَإِلَيْهِ تُحْشَرُونَ ﴿٢٤﴾

Say, "It is He who has produced you and made for you hearing and vision and hearts; little are you grateful." Say, "It is He who has multiplied you throughout the earth, and to Him you will be gathered." --- Ayah: 23 -24

Allah now asks the Prophet (S.A.W) to talk to the **قل:** disbelievers since they aren't worthy to be addressed directly.

To be useful, to sprout, to rise, mature, youthful, strong: **أَنْشَأَكُمْ**

A passionate heart full of emotions, a roasting piece of meat: **الْأَفْئِدَةَ**

To wither, become old, mature in age: **ذَرَأَكُمْ** How pathetically less: **قَلِيلًا مَّا**

**السَّمْعَ وَالْأَبْصَرَ وَالْأَفْئِدَةَ**

Listening and observing leads you to Intellectual reflections and then ultimately to the Spiritual reflections.

**QURAN is the ZIKAR "REMINDER"**

It stimulates your thought process so that you can genuinely arrive at **THIS IS THE TRUTH**

Your mind is at peace with it  
Your heart is attached to it

**IMAN**

**INTELLECTUAL ATTACHMENT**

**Conviction**

**EMOTIONAL ATTACHMENT**

**Passion**

**السَّمْعَ** is singular but **وَالْأَبْصَرَ وَالْأَفْئِدَةَ** are plurals. WHY? Because: everyone's angle of view and way of thinking is different but the sound they all hear is the same.

**REFLECTION ON THE QURAN is the baseline. It'll not make you a MO'MIN! But ensures that you'll not fall in doubt**

Herding, gathering like the animals: **تُحْشَرُونَ**

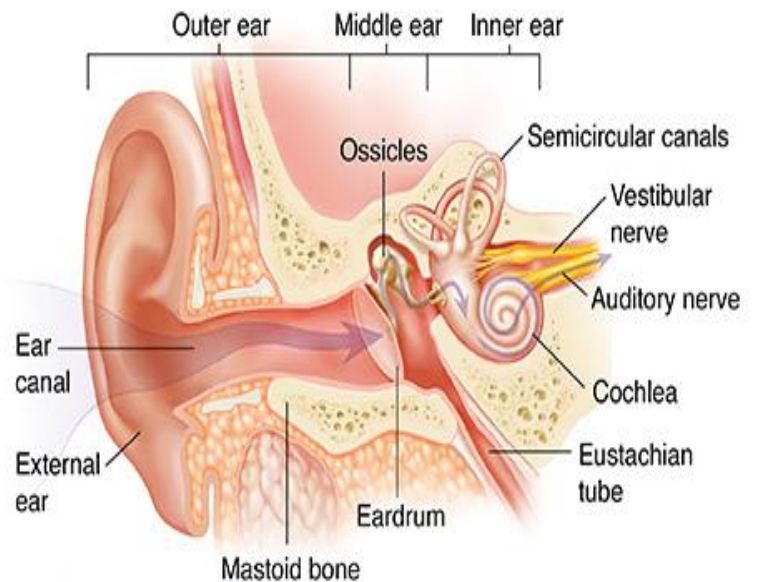




# السَّمْعُ وَالْأَبْصَرُ

## THE SENSE OF HEARING

- The human ear has 30,000 auditory cells that transmit all kinds of noises.
- Ear bones (Ossicles) are so small that they can be placed together on a penny. The inner ear is no larger than a pencil eraser in circumference.
- But there are more than 20,000 hairs on it. And you owe your hearing ability to these tiny hairs.
- Ear drum is less than 0.7 inches in width. It only has to move less than a billionth of an inch to do its job.
- The inner ear has a small snail shell-like cochlea where the sound is transformed into electrical impulses. It's about the size of a pea.
- Ears never sleep. It's the brain that ignores the sounds during sleep.



You get a new ear canal every year. It grows approx 1.3 inches per year. If the old skin didn't drop off, you would have a 2 foot long cord coming out of your ear by the time you're 20-years-old.

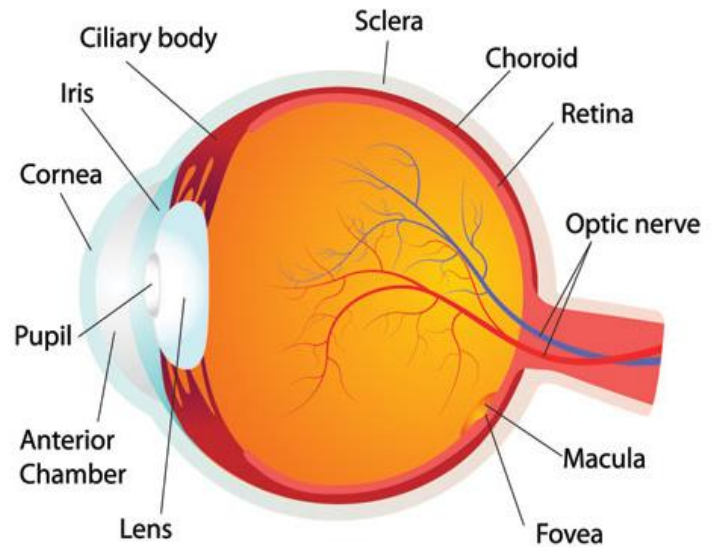
The middle ear is connected to the throat through Eustachian tube. This tube is responsible for striking equilibrium between the body pressure and the atmospheric

**DO YOU KNOW?** Our skull also transmits sound to our brain. This is known as bone conduction, which has been poorly understood until recently.

# السَّمْعَ وَالْأَبْصَرَ

## THE SENSE OF SIGHT

- Human eye has been called the most complex organ in the body.
- Human eyes are made of over two million working parts.
- Human eye is an exceptional tool for gathering light
- The eye can distinguish among 500 shades of gray.
- It can spot the light of a candle 14 miles away.
- Eyes are capable of processing 36,000 pieces of information per hour.
- Newborn babies are color-blind at birth. They see everything upside down until the brain learns to process everything right side up.
- Everything would appear two-dimensional to a person with only one eye.
- Having 20/20 vision, the standard for normal visual acuity means you can clearly see an image from a distance of 20 feet.



Vision demands that the brain differentiate foreground from background, and edges from lines, skills that even the world's most powerful computers have been unable to match. Your brain makes sense of shapes and symbols by putting them together like a jigsaw puzzle, organizing fragments into a coherent whole in fraction of seconds. We develop this ability as infants.

You have photoreceptors (Rods & Cones) for two senses:  
SENSE OF BRIGHTNESS. (Rods)  
SENSE OF COLOUR (Cone)

# QUIZ TIME

**About how large is the eye?**

- A) As big as a basketball
- B) A little smaller than an apple
- C) As big as ping-pong ball
- D) A little bigger than tennis ball

**The ear do the following jobs:**

- A) Collects sound
- B) Processes sound
- C) Sends sound signals to your brain
- D) All of the above

**Ears help you keep your balance – true or false?**

- A) True
- B) False

**What is the biggest part of the eye and gives the eye its shape?**

- A) Vitreous body
- B) Rods
- C) Pupil
- D) Lens

**Which part of the ear takes sound waves and turns them into vibrations?**

- A) Ear canal
- B) Inner ear
- C) Eardrum
- D) Middle ear

**What helps us see colours?**

- A) Rods
- B) Cones
- C) Lens
- D) The color wheel

**What are the most delicate bones in your body called?**

- A) Cochlea
- B) Soft bones
- C) Ossicles
- D) Auricle

**Which of the following is a good way to take care of your ears?**

- A) Wear earplugs at loud music concerts
- B) Don't poke your ears with cotton swabs
- C) Keep the volume down on your music player
- D) All of the above

Cones team up with \_\_\_\_\_ so that you can see the total picture:

- A) Glasses       B) The lens       C) Your pupil       D) Rods

What color is your iris?

- Brown       Blue       Green       Hazel       Any colour

What tiny bone is attached to the eardrum? Hint: We hope you “nail” this one.

- A) Malleus (hammer)       B) Incus (anvil)       C) Stapes (stirrup)

What separates the outer ear from the middle ear?

- A) Auricle       B) The ear wall       C) Eardrum       D) Cochlea

Fluid moving in the\_\_ causes you to feel dizzy even after you stop spinning around.

- A) Eustachian tubes  
 B) Semicircular canals  
 C) Erie canals  
 D) Ear canals

Which part is the colorful part of the eye?

- A) Pupil       B) Iris       C) Eyeball       D) Cornea

When the image hits the retina, the image is upside down. What flips the image over so that it is right-side up?

- A) Lens       B) Retina       C) Optic nerve       D) The brain

What part of your ear is responsible for the popping sensation you feel when you're flying in an airplane?

- A) Liberty tube  
 B) Eustachian tube  
 C) Auditory nerve  
 D) Cochlear tube

Tears help your eyes by:

- A) Washing away germs
- B) Keeping them from drying out
- C) Keeping dust or other particles out
- D) All of the above

Which part of the ear do people pierce to wear earrings?

- A) Auricle (or pinna)
- B) Middle ear
- C) Outer ear canal
- D) Malleous

Read the sentences below and help find the missing words about your eyes. Words might be hidden horizontally, vertically and perhaps even back to front.

D	R	H	D	B	T	F	H	D	D	H	S	I	J	P	C
M	E	H	X	H	U	N	Z	L	D	N	J	Q	K	R	L
D	A	Y	Z	P	U	P	I	L	F	V	M	R	V	F	T
W	D	N	E	E	R	G	N	A	A	G	C	D	T	P	H
D	I	R	I	S	H	E	M	Q	R	P	Z	S	W	T	L
W	A	V	O	T	E	K	H	D	E	B	N	N	B	S	W
C	O	L	O	R	E	D	N	C	X	Z	P	T	G	C	V
M	C	N	G	T	P	R	Z	S	R	L	S	T	F	G	G

1. Your \_\_\_\_\_ allow you to see the \_\_\_\_\_ grass, your mom and your dog.
2. Because of your eyes you can \_\_\_\_\_ a book, watch a \_\_\_\_\_ or play a game of checkers.
3. \_\_\_\_\_ travels onto a thin, curved part of your eye called the \_\_\_\_\_.
4. Your \_\_\_\_\_ decides what it is that you're seeing.
5. The black part of the eye is called the \_\_\_\_\_.
6. The \_\_\_\_\_ part of your eye is called the \_\_\_\_\_.
7. People who are near-sighted can't see things \_\_\_\_\_ away.
8. who are far-sighted can't see things \_\_\_\_\_ up.

وَيَقُولُونَ مَتَى هَذَا الْوَعْدِ إِنْ كُنْتُمْ صَادِقِينَ ﴿٢٥﴾ قُلْ إِنَّمَا الْعِلْمُ عِنْدَ اللَّهِ وَإِنَّمَا أَنَا نَذِيرٌ مُبِينٌ ﴿٢٦﴾  
فَلَمَّا رَأَوْهُ زُلْفَةً سَيِّئَتْ وُجُوهُ الَّذِينَ كَفَرُوا وَقِيلَ هَذَا الَّذِي كُنْتُمْ بِهِ تَدْعُونَ ﴿٢٧﴾

And they say, "When is this promise, if you should be truthful?" Say, "The knowledge is only with Allah, and I am only a clear warner." But when they see it approaching, the faces of those who disbelieve will be distressed, and it will be said, "This is that for which you used to call." ----Ayah; 25-27

Prophet is not the only one, all of us should tell this truth (plural): **صَادِقِينَ**

**Spread the message and ask people to think**

**LEARNING PRINCIPAL:**

**KNOWLEDGE BELONGS TO ALLAH**

ALLAH doesn't answer all our questions and we should leave it.

Don't dig! Guide your curiosity to something beneficial.

Face to face, firsthand look, intimate: **زُلْفَةً**

Extremely disgusting face one makes : **سَيِّئَتْ**  
when they see something sickening, corpus

Ask for something aggressively: **تَدْعُونَ**

قُلْ أَرَأَيْتُمْ إِنْ أَهْلَكَنِیَ اللَّهُ وَمَنْ مَعِیَ أَوْ رَحِمَنَا فَمَنْ یُجِیرُ الْکَافِرِینَ مِنْ عَذَابِ أَلِیمٍ ﴿٢٨﴾  
قُلْ هُوَ الرَّحْمَنُ ۖ أَمَّنَابِهِ ۖ وَعَلِیْهِ تَوَكَّلْنَا ۖ فَسَتَعْلَمُونَ مَنْ هُوَ فِی ضَلَالٍ مُّبِینٍ ﴿٢٩﴾

Say, [O Muhammad], "Have you considered: whether Allah should cause my death and those with me or have mercy upon us, who can protect the disbelievers from a painful punishment?" Say, "He is the Most Merciful; we have believed in Him, and upon Him we have relied. And you will [come to] know who it is that is in CLEAR ERROR." ----Ayah: 28-29

Extreme disbelievers: **الْكَافِرِينَ** Violet death: **أَهْلَكَنِي** Precieve: **أَرَأَيْتُمْ**

Life itself is the rehmah of Allah: **الرَّحْمَنُ**



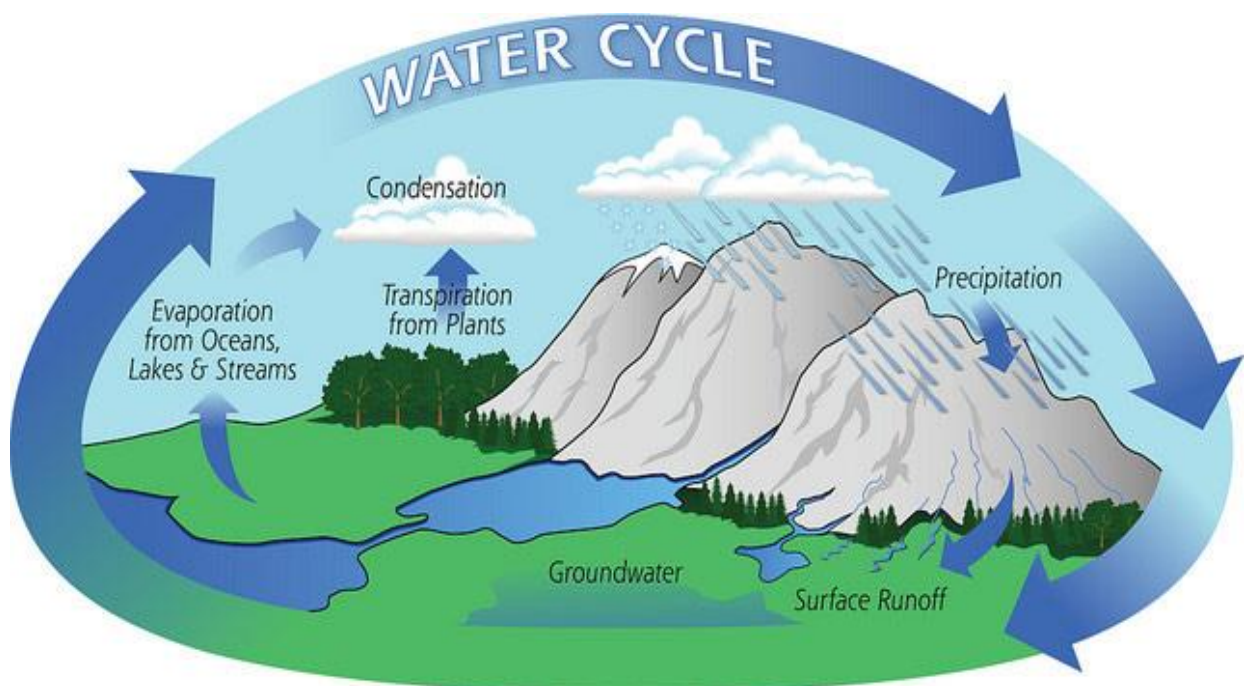
قُلْ أَرَأَيْتُمْ إِنْ أَصْبَحَ مَاؤُكُمْ غَوْرًا فَمَنْ يَأْتِيكُمْ بِمَاءٍ مَّعِينٍ ﴿٣٠﴾

Say, "Have you considered: if your water was to become sunken [into the earth], then who could bring you flowing water?" ---Ayah : 30

Our beautiful Earth is known as **"THE BLUE PLANET"** because of 71% of water on its surface. Earth is the only planet with flowing waters. Also it's the only planet where water exists in all three physical states. **ONLY 2.5 % OF THE TOTAL EARTH'S WATER IS FRESH WATER. 60% OF WHICH IS FROZEN IN ANTARCTICA & OTHER GLACIERS. 10% IS FOUND ON THE SURFACE IN THE LAKES AND RIVERS. 30% OF LIQUID FRESH WATER IS UNDERGROUND. LESS THAN 1% IS AVAILABLE FOR HUMANS.**

اللَّهُ الَّذِي يُرْسِلُ الرِّيحَ فَتُثِيرُ سَحَابًا فَيَبْسُطُهُ فِي السَّمَاءِ كَيْفَ يَشَاءُ وَيَجْعَلُهُ كِسْفًا فَتَرَى الْوَدْقَ يَخْرُجُ مِنْ خِلَالِهِ فَإِذَا أَصَابَ بِهِ مَنْ يَشَاءُ مِنْ عِبَادِهِ إِذَا هُمْ يَسْتَبْشِرُونَ

It is Allah, who **SENDS THE WINDS**, and **THEY STIR THE CLOUDS** and **SPREAD THEM IN THE SKY** however He wills, and **HE MAKES THEM FRAGMENTS** so you see the **RAIN EMERGE FROM WITHIN THEM**. And when He causes it to fall upon whom He wills of His servants, immediately they rejoice. (Ar-Rum: 48)





# SAVE WATER

**IF WORLD'S WATER = 100 LITERS**

**AVAILABLE FRESH WATER = 1/2 Table Spoon**

Abdullah ibn Amr reported: The Messenger of Allah ﷺ passed by Sa'd while he was performing ablution. The Prophet said, "What is this extravagance (israf)?" Sa'd said, "Is there extravagance with water in ablution?" The Prophet said, "Yes, even if you were on the banks of a flowing river." ( Sunan ibn Majah:425)

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## WATER CONSERVATION (WAYS TO SAVE WATER)

### **USE WATER WISLEY:**

**Avoid unnecessary use of water e.g. use a broom to clean instead of water.**

### **FIX ALL THE LEAKEGES:**

**Install a water meter to measure all the hidden water leakages.  
At one drip per second, A TAP CAN LEAK 3,000 GALLONS IN A YEAR.**

### **USE A BUCKET INSTEAD OF SHOWER:**

**A five-minute shower uses 10 TO 25 GALLONS.**

### **USE WATER EFFICIENT FLUSHES**

**A running toilet can waste up to 200 GALLONS of water each day.**

### **USE WATER EFFICIENT TECHNOLOGY**

**New ENERGY STAR RATED washing machines use 35-50% less water.  
Using the front load washers you can save 15 GALLONS of water per wash load.  
Washing dishes by hand uses 7 TIMES more water than the modern dishwasher.**

### **TURN TAP OFF WHILE BRUSHINGTEEHT/ SOAPING HANDS:**

**An average tap releases 2 GALLONS of water per minute; You can save up to 4 GALLONS of water every morning by turning off the tap while brushing teeth.**

### **AVOID WATER POLLUTION:**

**3.4 million People die each year from water related causes.**

### **RAIN WATER HARVESTING:**

**Collecting rainwater for use as it is the purest water.  
A man in India revived 5 rivers and brought water back to 1000 villages just by constructing johars for collecting rain water and check dams.**

# WATER IS LIFE

وَاللَّهُ خَلَقَ كُلَّ دَابَّةٍ مِّن مَّاءٍ فَمِنْهُمْ مَّن يَمْشِي عَلَى بَطْنِهِ، وَمِنْهُمْ مَّن يَمْشِي عَلَى  
رِجْلَيْنِ وَمِنْهُمْ مَّن يَمْشِي عَلَى أَرْبَعٍ يَخْلُقُ اللَّهُ مَا يَشَاءُ إِنَّ اللَّهَ عَلَى كُلِّ  
شَيْءٍ قَدِيرٌ ﴿٤٥﴾

**ALLAH HAS CREATED EVERY [LIVING] CREATURE FROM WATER.**

And of them are those that move on their bellies and of them are those that walk on two legs, and of them are those that walk on four. Allah creates what He wills. Indeed, Allah is over all things competent.

An-Nur (45)

## **HUMAN BODY = 65% Water**

Brain=75% water	Blood=90% water	Lungs= 83% water	Skin=64% Water
--------------------	--------------------	---------------------	-------------------

- ✓ Water quenches our thirst.
- ✓ It helps in formation of blood.
- ✓ Water also helps in food digestion.
- ✓ It flushes away all the wastes from our body.
- ✓ It regulates body temperature by sweating and respiration.

## **PLANTS:**

- ✓ Water helps plants in photosynthesis.
- ✓ Plants need water for growth.
- ✓ It keeps the leaves cool by evaporation.
- ✓ It transports dissolved minerals around the plant.
- ✓ It supports leaves and shoots by keeping the cells rigid.

## **FRUITS:**

Tomato=94% Water	Watermelon= 92% water	Orange=82% water	Apricot=86% water
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## **VEGETABLES:**

Cucumber= 96% water	Radish=95% water	Carrot=87% water	Spinach=92% water
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## **ANIMALS:**

- ✓ Like humans and plants animals also need water for survival.
- ✓ Water is also the home of many "aquatic" animals and plants.

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# ZAM-ZAM, THE PUREST WATER ON EARTH

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## THE MIRACULOUS ORIGIN:

Mecca is dry barren land formed by *nonporous igneous rocks*. The Zam-zam has been flowing here for more than *4,000 year*. It all started when ALLAH relieved the pain of a lonely mother Hajara (A.S) who was running in search of water to quench the thirst of her baby Isma'eel (A.S). Allah sent his angle Jibra'eel (A.S), who struck the earth with his wing and Zam-Zam started to flow.

## THE MIRACULOUS FLOW:

The Zam-zam well is only about 30 meters deep. A pumping test at 8,000 liters per second for more than a 24 hour period showed that it recovered the reduced water level in only about 11 minutes.

## PUREST WATER ON EARTH:

It is the purest water on earth since it has the perfect amount of bicarbonates. It has been scientifically proved that Zam-zam is free from all kinds of impurities and contaminations. It doesn't even allow the algae growth. It remain fresh even If it is kept bottled for a long period of time.

## A HIGHLY NUTRITIONAL FOOD AND MEDICINE:

The Prophet ﷺ said: "The best water on the face of the earth is the water of Zam-Zam; it is a kind of food and a healing from sickness."  
(Saheeh al-Jaami', 3302)

It has a healing and curative effect.

It is rich in fluorides that prevent bacteria growth.

It contains required amount of calcium and magnesium.

It has always maintained the same salt composition and taste.

It reduces the impacts of hunger by increasing the energy level in the body cells.

Zam-zam is alkaline in nature; it neutralizes the excess acid formation in the stomach thus beneficial for the hyperacidity and heartburn.

## IT FULFILLS THE SINCERE INTENTIONS:

The Messenger of Allah (s.a.w) said: "The water of Zam-Zam is for whatever it is drunk for." (Ibn Maajah: 3062)

"Zamzam water is what one intends to drink it for. When one drinks it to be healed, Allah heals him; when one drinks it to be full, Allah makes him full; and when one drinks it to quench his thirst, Allah quenches it. "

( Ahmad, and Ibn Majah)



## Do You Know?

Water exists in how many physical states on Earth? Can you tell why?

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What percent of Earth's water is salt water?

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How much of the water on Earth is fresh water?

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How much fresh water is available for us?

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Where is most of the Earth's fresh water?

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Which group contains more of fresh water; clouds and atmosphere or all the rivers on Earth?

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What accounts for the large amount of water use?

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From where do we get drinking water? Is all fresh water drinkable?

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What are the potential threats to fresh water safety?

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What percentage of humans doesn't have access to safe drinking water?

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What do you think? How can you help in saving water?

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Can you guess how much water was there on Earth a million years ago?

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How does nature conserve water?

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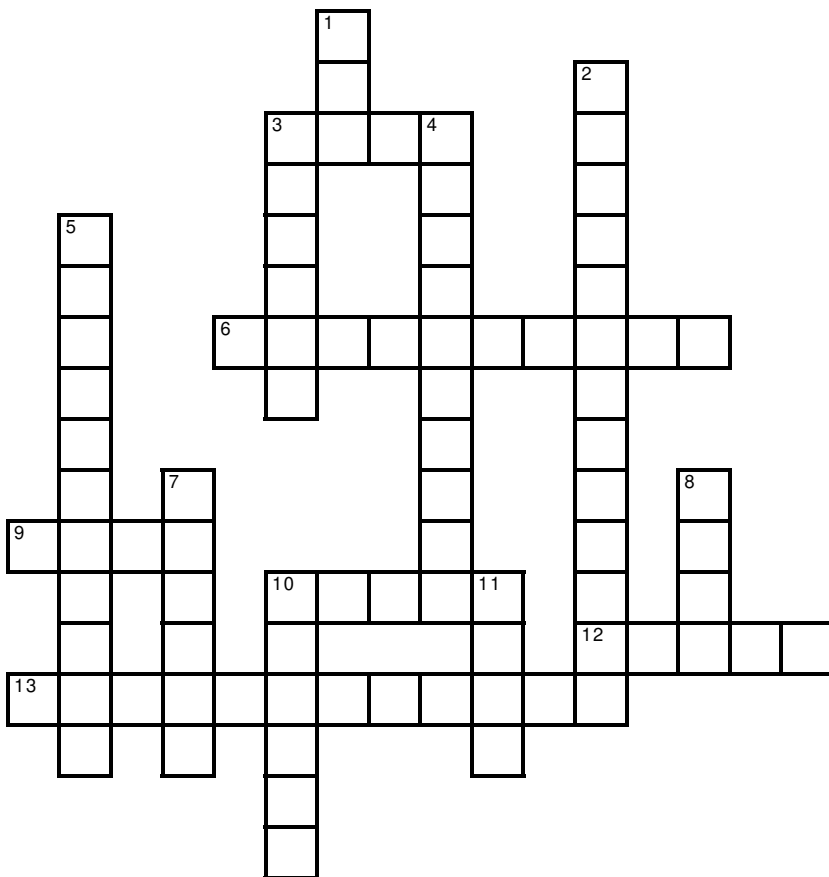
How much water is in your body?

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What amaze you about the Zam-zam water?

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**Across**

- 3. Ice crystals that fall from the sky.
- 6. Water that has been heated to a gas.
- 9. Frozen rain.
- 10. A large body of water that flows across the land.
- 12. A large body of salt water.
- 13. The process of changing from water vapor to water droplets.

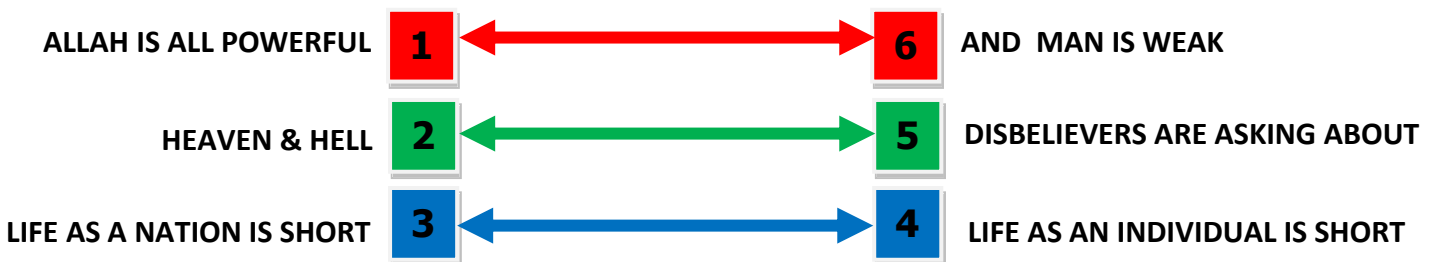
**Down**

- 1. What provides the energy that drives the water cycle?
- 2. The process of water droplets or ice crystals falling from the sky.
- 3. A small body of water that flows across the land.
- 4. The process of water moving through the world by precipitation, evaporation, and condensation.
- 5. The process of water turning into a vapor.
- 7. These form in the sky when water vapor condenses into water droplets.
- 8. A large body of fresh water.
- 10. Water that flows in streams and river into the oceans and lakes.
- 11. Water droplets that fall from the sky.

# سُورَةُ الْمُلْكِ

## BIRD'S EYE VIEW

-  **1** AYAH (1 - 4)  
ALLAH'S DOMINION
-  **2** AYAH(5-15)  
HEAVEN & HELL
-  **3** Ayah(16 - 22)  
IMMEDIATE THREATS
-  **4** AYAH (23-24)  
LIFE IS SHORT
-  **5** AYAH (25 - 27)  
WHEN?
-  **6** AYAH (28 - 30)  
YOU ARE WEAK



www.nasa.gov  
www.almaany.com  
windows of Islam(youtube channel)  
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Surah AlMulk, Tafseer by Dr. Israr Ahmed  
Hydrology or water cycle in Quran by Dr. Zakir Niak  
Astrophysics & The Holy Quran  
The unchallengeable miracles of the Quran & Scientific wonders  
on the earth & in space by Yusuf Al-Hajj Ahmed